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Parity 48
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Start print mode 90
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Head dot test 99
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Spec parameter 1 100
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EasyPlug monitor 100

Paper jam level 101
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Matend adjust 105
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Feed adjust 106
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Send test 107
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Roll number 112
Cutter number 112
Head run length 112
Roll run length 112
Cuts on knife 113
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Cuts on knife 113
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General Information

Important setting instructions

Starting in offline mode, you get to the parameter menu by pressing the prog button. There you can set/alter the different parameters of the printer and activate/deactivate options.

➠ CAUTION! - With some parameters, false settings can result in the device being damaged (e. g. if the print head temperature is too high). Data and/or print orders are also deleted during formatting and with other settings.

➠ Pay attention to the corresponding notes in the following description to ensure that no damage occurs!

Area of application

The description counts for all devices listed in the headline of this document. All status printouts and parameters are described in the same order as they *may appear* in the parameter menu of the respective printer.

➠ Not all of the parameters appear in each of the listed printers!

At the top of each parameter description can be found a bar which indicates the printer types, in which this parameter is available:

64-xx	DPM[a]	ALX 92x	TT4	AP 4.4	AP 5.4

a. Only with mounted USI board.

If a parameter appears in the menu of a certain printer type or not, depends on the following, which can be read from this bar:

- The *printer type:*
  Printers, in which have this special parameter in the parameter menu, have a frame around their name on the indication bar (see example above: 64-xx, DPM, ALX 92x and AP 5.4).
- The configuration with *options* and/or certain *parameter settings*:
  If a parameter only appears under certain circumstances in the parameter menu, are those conditions described in a footnote (see example above: the parameter appears only in the DPM parameter menu, if the DPM is equipped with a USI board). If the footnote is not assigned to a special printer type, it is valid for all (framed) printers.

Firmware

This description applies to all printers which are equipped with the following firmware version:

- 3.32 for 64 bit-devices (64-xx, DPM, ALX 92x)
- 2.32 for 32 bit-devices (AP 4.4, AP 5.4)
- Exception: 2.33 beta for AP 7.t (Prerelease)

❍ The paragraph *Overview Parameter Menues* in this topic section contains an overview of all available parameters of the respective printer.

Operating the parameter menu

The illustrations on the following pages clarifie the operating principle of the parameter menu. The return path shown on the left of the screen, called up using the Prog. button, also applies for parameters in the middle of the screen.

Setting values

The setting of a parameter always follows this scheme:

1. Select the parameter.
2. Press the Online button.
3. Set the parameter to the intended value by pressing the Cut or Feed button.
4. Confirm by pressing the Online button.

Example

Setting the parameter *PRINT PARAMETERS > Material type* to punched material.

	Action	Display	Note
		OFFLINE 0 JOBS	Initial state: off-line mode.
1.	Press Prog button.	PRINT INFO	
2.	Press Cut button.	PRINT PARAMETERS	
3.	Press Online button.	PRINT PARAMETERS Print speed	First menu item of the "PRINT PARAMETERS" menu.
4.	Press Cut button several times, up to the display:	PRINT PARAMETERS Material type	Parameter selected.
5.	Press Online button.	Material type Endless	
6.	Press Feed button.	Material type Punched	Setting the parameter to the intended value by pressing the Cut or Feed button.
7.	Press Online button.	PRINT PARAMETERS Material type	Confirm with Online button.
8.	Press Prog button 2x.	OFFLINE 0 JOBS	"Way back" by pressing the Prog button.

Tab. 1:Example for setting a parameter: Changing the material type setting.

Parameter Menu 64-xx / AP 4.4 / AP 5.4

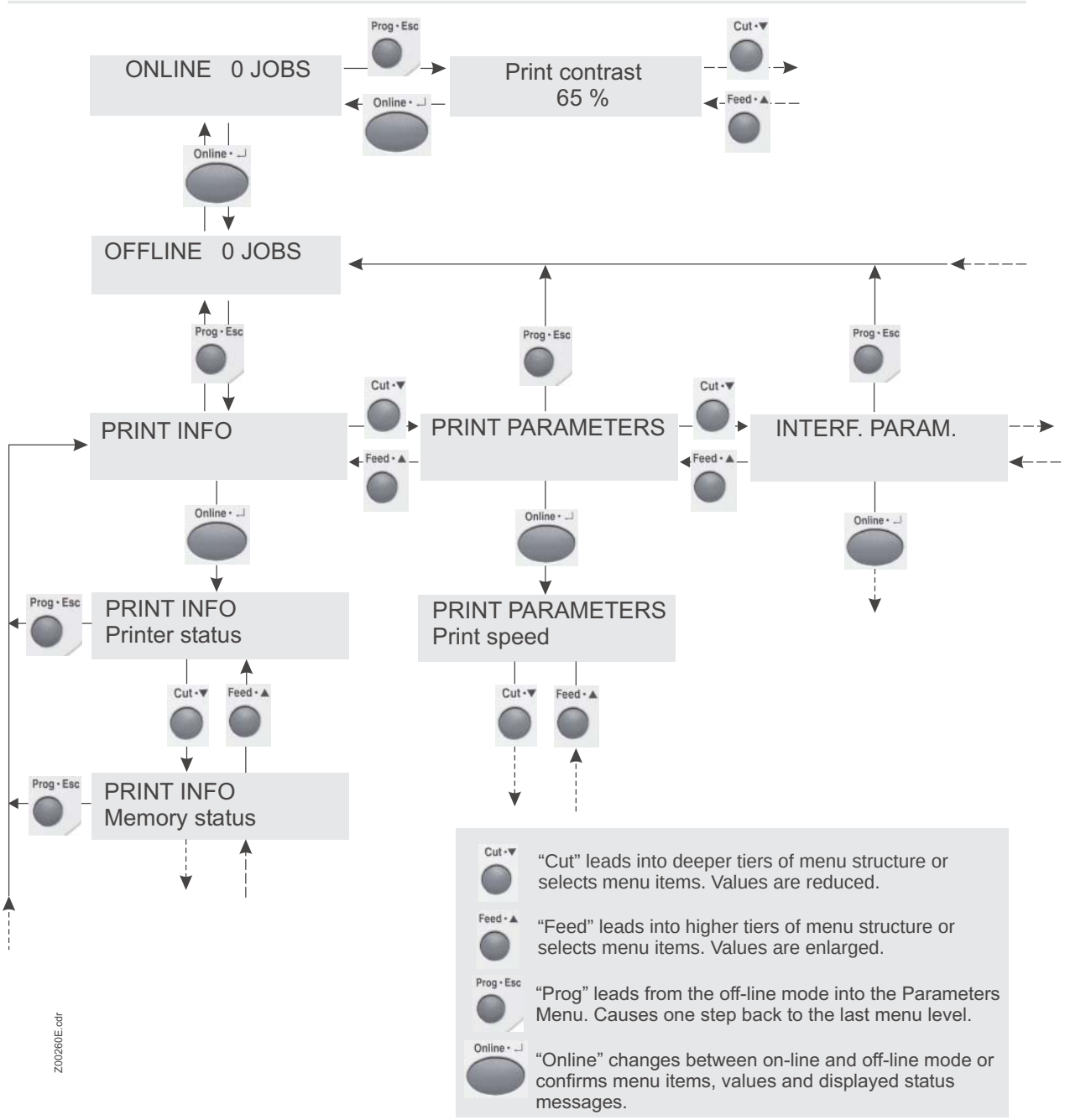
ONLINE 0 JOBS
Prog • Esc
Online • ⏎
Print contrast
65 %
Cut • ▼
Feed • ▲
OFFLINE 0 JOBS
PRINT INFO
PRINT PARAMETERS
INTERF. PARAM.
PRINT INFO
Printer status
PRINT INFO
Memory status
PRINT PARAMETERS
Print speed
Z00260E.cdr
"Cut" leads into deeper tiers of menu structure or selects menu items. Values are reduced.
"Feed" leads into higher tiers of menu structure or selects menu items. Values are enlarged.
"Prog" leads from the off-line mode into the Parameters Menu. Causes one step back to the last menu level.
"Online" changes between on-line and off-line mode or confirms menu items, values and displayed status messages.

Fig. 1: Guideline through the 64-xx parameter menu. Start into it by pressing the Prog button in off-line mode.

Parameter Menu DPM / ALX 92x

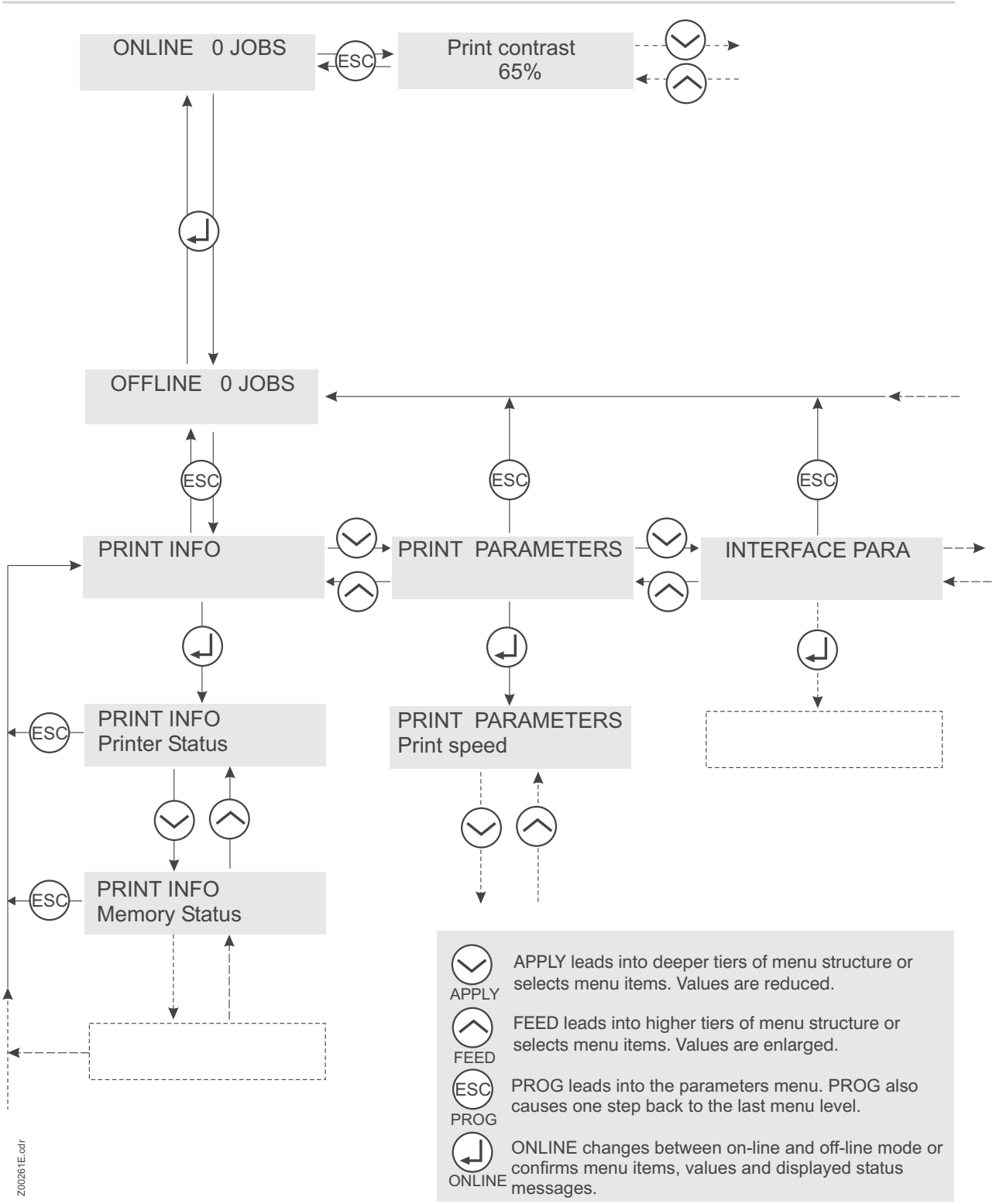

Fig. 2: Functional diagram of the DPM / ALX 92x parameter menu. You get into the menu by pressing the Prog key in Offline-Mode.

Overview Parameter Menus

Understanding the Parameter Overviews

The charts in the following show all of the parameters implemented in the printer firmware. Some parameters are only visible in the parameter menu under specific preconditions. These parameters are provided with a gray background and a digit at the right column edge. The digit refers to a footnote describing the precondition under which the parameter is visible.

PRINT INFO
Printer status
Memory status
Font status
Service status
Dottest endless
Dottest punched
Reference label

PRINT PARAMETERS	
Print speed	
Feed speed	
Material type	
Material length	
Material width	
Punch offset	
Bar code Multip.	
UPC plain-copy	
EAN Readline	
EAN sep. lines	
Rotated Barcodes	
Dispense Mode	14
Dispensposition	14
Cut mode	6
Cut speed	6
Cut position	6
Double cut	6
Rewind direction	5
X – print offset	
Y – print offset	
Punch mode	
Punch level	12

INTERF. PARAM.	
> EASYPLUGINTERPR	
Interface	
Spooler mode	
Printer ID No.	
Spooler size	
> COM1 PORT	
Baud rate	
No. of data bits	
Parity	
Stop bits	
Data synch.	
Frame error	
Serial Port Mode	
> COM2 PORT	11
Function Option	11
Baud rate	11
No. of data bits	11
Parity	11
Stop bits	11
Data synch.	11
Frame error	11
Serial Port Mode	11

(Interf. Para. continued)	
> CENTRONICS	
PnP function	
Select signal	
SelectIn signal	
> ETHERNET PARAM.	18
Ethernet speed	18
IP Addressassign	18
IP Address	18
Net mask	18
Gateway address	18
Port address	18
MAC address	18

SYSTEM PARAMETER	
Foil end warning	
Display mode	14
Dispense counter	14
Autom. dot check	
Early dottest	15
Latest dottest	15
Dottestarea from	15
Dottestarea to	15
Print emulation	
Character sets	
Character filter	
Light sens. type	
Head-sensor dist	13
Sens. punch-LS	
Ribbon autoecon.	
Ribbon eco. limit	
Turn-on mode	
Error reprint	
Single job mode	
Head resistance	
Temp. reduction	
Voltage offset	
Expand Logo	3
Miss. label tol.	
Mat. end detect.	
Periph. device	
Singlestartquant	

(System P. continued)	
Dispensing mode	14
Application mode	14
Wait position	10
Start mode	
Start source	
Dispensing edge	14
Transport mode	14
External signal	
Signal edge	
Print contrast	
Ram disk size	
Font downl. area	
Free store size	
Print Info Mode	
Language	
Signal / buzzer	
Access authoriz.	
Realtime clock	8

1. Only 64-xx dispenser with 4“ printhead **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only with realtime clock **10.** Only if SYSTEM PARAMETER > Application Mode = Save mode **11.** Only with Options Board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser version **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **17.** Only with 64-04/05/06 **18.** Only with Ethernet CPU board **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only if SYSTEM PARAMETERS > Periph. device = Dispenser **21.** Only if SYSTEM PARAMETERS > Periph. device = Int Rewinder **22.** Only for R&D **23.** Only with I/O board **24.** Not with I/O board 25. With Applicator Interface only **26.** Only if INTERF. PARAM. > COM2 PORT > Function Option = Barcode OLV **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA

APPLICATOR PARA	25
Applicator type	25
Application mode	25
Start error stop	25
APSF sensor res.	25
Start delay	25
Dwell time	25/27
Blow on time	25/28
Restart delay	25
Position timeout	25

OLV PARAMETERS	26
Verify mode	26
Ref Decode	26
Decodability	26
Modulation	26
Defects	26
Edge Contrast	26
Rmin/Rmax	26
Symbol Contrast	26
PCS	26
R (white)	26
R (black)	26
Ratio	26
ANSI Symbolgrade	26
Dist. head-beam	26
Cancel. printing	26
Reprint quantity	26
OLV Mode	26

DP INTERFACE	7
Interface type	7
Start delay	7
Start print mode	7
End print mode	7
Reprint signal	7
Ribbon signal	7
Material signal	7
Feed input	7
Pause input	7
Start error stop	7
Internal inputs	7
Applicate mode	19

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Disp. Head Offs.	1/13
Command Sequence	13
Default values	13
Delete job	
Delete spooler	
Factory settings	

SERVICE FUNCTION	
Service	13
Head exchange	13
Roller exchange	13
Cutter exchange	13/6
Serv. data reset	13
Head dot test	
Head step tune	13
Spec parameter 1	13
Spec parameter 1	13
EasyPlug monitor	13
Paper jam level	13
Head adjust	
Sensor adjust	13
Sensor test	
HME registers	4/13
Scanner test	
CompactFlashTest	
Send test	
Receive test	
Com2 comun. test	13
Com2 port test	13
Headvo. adj. 20 V	13/17
Headvo. adj. 28 V	13/17
Print test	
Rewinder setup	5

1. Only 64-xx dispenser with 4“ printhead **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only with realtime clock **10.** Only if SYSTEM PARAMETER > Application Mode = Save mode **11.** Only with Options Board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser version **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **17.** Only with 64-04/05/06 **18.** Only with Ethernet CPU board **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only if SYSTEM PARAMETERS > Periph. device = Dispenser **21.** Only if SYSTEM PARAMETERS > Periph. device = Int Rewinder **22.** Only for R&D **23.** Only with I/O board **24.** Not with I/O board 25. With Applicator Interface only **26.** Only if INTERF. PARAM. > COM2 PORT > Function Option = Barcode OLV **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA

PRINT INFO
Printer status
Memory status
Font status
Service status
Dottest endless
Dottest punched
Reference label

PRINT PARAMETERS	
Print speed	
Feed speed	
Material type	
Material length	
Material width	
Punch offset	
Bar code Multip.	
UPC plain-copy	
EAN Readline	
EAN sep. lines	
Rotated Barcodes	
Dispense Mode	
Dispensposition	
X – print offset	
Y – print offset	
Punch mode	
Punch level	12

INTERF. PARAM.	
> EASYPLUGINTERPR	
Interface	
Spooler mode	
Printer ID No.	
Spooler size	

> COM1 PORT	
Baud rate	
No. of data bits	
Parity	
Stop bits	
Data synch.	
Frame error	
Serial Port Mode	

> COM2 PORT	11
Function Option	11
Baud rate	11
No. of data bits	11
Parity	11
Stop bits	11
Data synch.	11
Frame error	11
Serial Port Mode	11

(Interf. Param. cont.)
> CENTRONICS
PnP function
Select signal
SelectIn signal

> ETHERNET PARAM.	18
Ethernet speed	18
IP Addressassign	18
IP Address	18
Net mask	18
Gateway address	18
Port address	18
MAC address	18

SYSTEM PARAMETER	
Head disp dist	
Speed unit	
Foil end warning	
Display mode	
Dispense counter	
Autom. dot check	
Early dottest	15
Latest dottest	15
Dottestarea from	15
Dottestarea to	15
Print emulation	
Character sets	
Character filter	
Light sens. type	
Sens. punch-LS	
Ribbon autoecon.	
Ribbon eco. limit	
Turn-on mode	
Error reprint	
Single job mode	
Head resistance	
Temp. reduction	
Voltage offset	
Expand Logo	3
Miss. label tol.	
Mat. end detect.	
Singlestartquant	
Dispensing Mode	

(System Param. cont.)	
Application mode	
Wait position	16
External signal	
Signal edge	
Print contrast	
Ram disk size	
Font downl. area	
Free store size	
Print info mode	
Language	
Signal / buzzer	
Access authoriz.	
Realtime clock	8

1. Only 64-xx dispenser with 4“ printhead **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only with realtime clock **10.** Only if SYSTEM PARAMETER > Application Mode = Save mode **11.** Only with Options Board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser version **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **17.** Only with 64-04/05/06 **18.** Only with Ethernet CPU board **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only if SYSTEM PARAMETERS > Periph. device = Dispenser **21.** Only if SYSTEM PARAMETERS > Periph. device = Int Rewinder **22.** Only for R&D **23.** Only with I/O board **24.** Not with I/O board 25. With Applicator Interface only **26.** Only if INTERF. PARAM. > COM2 PORT > Function Option = Barcode OLV **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA

APPLICATOR PARA	25
Applicator type	25
Application mode	25
Start error stop	25
APSF sensor res.	25
Start delay	25
Dwell time	25/27
Blow on time	25/28
Restart delay	25
Position timeout	25

OLV PARAMETERS	26
Verify mode	26
Ref Decode	26
Decodability	26
Modulation	26
Defects	26
Edge Contrast	26
Rmin/Rmax	26
Symbol Contrast	26
PCS	26
R (white)	26
R (black)	26
Ratio	26
ANSI Symbolgrade	26
Dist. head-beam	26
Cancel. printing	26
Reprint quantity	26
OLV Mode	26

DP INTERFACE	7
Interface type	7
Start delay	7
Start print mode	7
End print mode	7
Reprint signal	7
Ribbon signal	7
Material signal	7
Feed input	7
Pause input	7
Start error stop	7
Internal inputs	7
Applicate mode	19

SPECIAL FUNCTION	
Printer type	13
Printhead type	13
Command sequence	13
Default values	13
Delete job	
Delete spooler	
Factory settings	

SERVICE FUNCTION	
Service	13
Head exchange	13
Roller exchange	13
Cutter exchange	13/6
Serv. data reset	13
Head dot test	
Head step tune	13
Spec parameter 1	13
Spec parameter 2	13
EasyPlug monitor	13
Paper jam level	13
Head adjust	
Sensor adjust	13
Sensor test	
HME registers	
Scanner test	
CompactFlashTest	
Send test	
Receive test	
Com2 comun. test	13
Com2 port test	13
Print test	
Rewinder setup	

1. Only 64-xx dispenser with 4“ printhead **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only with realtime clock **10.** Only if SYSTEM PARAMETER > Application Mode = Save mode **11.** Only with Options Board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser version **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **17.** Only with 64-04/05/06 **18.** Only with Ethernet CPU board **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only if SYSTEM PARAMETERS > Periph. device = Dispenser **21.** Only if SYSTEM PARAMETERS > Periph. device = Int Rewinder **22.** Only for R&D **23.** Only with I/O board **24.** Not with I/O board 25. With Applicator Interface only **26.** Only if INTERF. PARAM. > COM2 PORT > Function Option = Barcode OLV **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA

PRINT INFO
Printer status
Memory status
Font status
Service status
Dottest endless
Dottest punched
Reference label

PRINT PARAMETERS	
Print speed	
Feed speed	
Material type	
Material length	
Material width	
Punch offset	
Bar code Multip.	
UPC plain-copy	
EAN Readline	
EAN sep. lines	
Cut mode	6
Cut position	6
Double cut	6
Rewind direction	5
X – print offset	
Y – print offset	
Punch mode	
Punch level	12

INTERF. PARAM.	
> EASYPLUGINTERPR	
Interface	
Spooler mode	
Printer ID No.	
Spooler size	

> COM1 PORT	
Baud rate	
No. of data bits	
Parity	
Stop bits	
Data synch.	
Frame error	

> COM2 PORT	23
Baud rate	23
No. of data bits	23
Parity	23
Stop bits	23
Data synch.	23
Frame error	23
Serial Port Mode	23

> CENTRONICS
PnP function

(Interf. Param. cont.)
> ETHERNET PARAM.
Ethernet speed
IP Addressassign
IP Address
Net mask
Gateway address
Port address
MAC address

SYSTEM PARAMETER	
Foil end warning	
Print emulation	
Character sets	
Character filter	
Light sens. type	
Sens. punch-LS	
Foil mode	
Turn-on mode	
Error reprint	
Single job mode	
Head resistance	
Temp. reduction	
Voltage offset	
Miss. label tol.	
Periph. device	
Singlestartquant	
Start source	
External signal	
Signal edge	24
Print contrast	
Ram disk size	
Font downl. area	
Free store size	
Print info mode	
Reprint function	
Language	
Access authoriz.	
Realtime Clock	

I/O BOARD PARA	23
Start delay	23
Start print mode	23
Reprint Signal	23
Feed	23
Pause input	23
Error output	23
Error polarity	23
Status output	23
Status polarity	23
End print mode	23

1. Only 64-xx dispenser with 4“ printhead **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only with realtime clock **10.** Only if SYSTEM PARAMETER > Application Mode = Save mode **11.** Only with Options Board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser version **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **17.** Only with 64-04/05/06 **18.** Only with Ethernet CPU board **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only if SYSTEM PARAMETERS > Periph. device = Dispenser **21.** Only if SYSTEM PARAMETERS > Periph. device = Int Rewinder **22.** Only for R&D **23.** Only with I/O board **24.** Not with I/O board 25. With Applicator Interface only **26.** Only if INTERF. PARAM. > COM2 PORT > Function Option = Barcode OLV **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA

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Dispense Mode	20
Dispenseposition	20
Display mode	20
Dispense counter	20
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Start mode	20
Start source	20
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Min rew. current	13+20
Max rew. current	13+20
Start rew. curr.	13+20
Start cur. len.	13+20
Pullback current	13+20
Back diameter	13+20
Break current	13+20
Break diameter	13+20

REWINDER PARA	21
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Current mode	13+21
Min rew. current	13+21
Max rew. current	13+21
Start rew. curr.	13+21
Start cur. len.	13+21
Pullback current	13+21
Back diameter	13+21
Break current	13+21
Break diameter	13+21

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Spec parameter 2	22
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1. Only 64-xx dispenser with 4“ printhead **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only with realtime clock **10.** Only if SYSTEM PARAMETER > Application Mode = Save mode **11.** Only with Options Board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser version **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **17.** Only with 64-04/05/06 **18.** Only with Ethernet CPU board **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only if SYSTEM PARAMETERS > Periph. device = Dispenser **21.** Only if SYSTEM PARAMETERS > Periph. device = Int Rewinder **22.** Only for R&D **23.** Only with I/O board **24.** Not with I/O board 25. With Applicator Interface only **26.** Only if INTERF. PARAM. > COM2 PORT > Function Option = Barcode OLV **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA

PRINT INFO
Printer status
Memory status
Font status
Service status
Dottest endless 2
Dottest punched
Reference label

PRINT PARAMETERS
Print speed
Feed speed
Material type
Material length
Material width
Punch offset
Bar code Multip.
UPC plain-copy
EAN Readline
EAN sep. lines
X – print offset
Y – print offset
Punch mode
Punch level 12

INTERF. PARAM.
> EASYPLUGINTERPR
Interface
Spooler mode
Printer ID No.
Spooler size

> COM1 PORT
Baud rate
No. of data bits
Parity
Stop bits
Data synch.
Frame error

SYSTEM PARAMETER
Foil end warning
Print emulation
Character sets
Character filter
Light sens. type
Sens. punch-LS
Foil mode
Turn-on mode
Error reprint
Single job mode
Head resistance
Temp. reduction
Voltage offset
Miss. label tol.
Periph. device
Singlestartquant
Start source
External signal
Signal edge
Print contrast
Ram disk size
Font downl. area
Free store size
Print info mode
Language
Access authoriz.

SPECIAL FUNCTION
Command sequence 13
Default values 13
Delete job
Delete spooler
Factory settings

SERVICE FUNCTION
Service 13
Head exchange 13
Roller exchange 13
Serv. data reset 13
Spec parameter 1 13
Spec parameter 2 13
EasyPlug monitor 13
Sensor adjust 13
Sensor test
CompactFlashTest
Send test
Receive test
Print test
Feed adjust
Matend adjust

1. Only 64-xx dispenser with 4“ printhead **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only with realtime clock **10.** Only if SYSTEM PARAMETER > Application Mode = Save mode **11.** Only with Options Board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser version **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **17.** Only with 64-04/05/06 **18.** Only with Ethernet CPU board **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only if SYSTEM PARAMETERS > Periph. device = Dispenser **21.** Only if SYSTEM PARAMETERS > Periph. device = Int Rewinder **22.** Only for R&D **23.** Only with I/O board **24.** Not with I/O board 25. With Applicator Interface only **26.** Only if INTERF. PARAM. > COM2 PORT > Function Option = Barcode OLV **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA

AP 7.t Parameters

FW 2.33 beta

PRINT INFO
Printer statur
Memory status
Font status
Service status
Dottest endless
Dottest punched
Reference Label

PRINT PARAMETERS	
Print speed.	
Feed speed.	
Material type	
Material length	
Material width	
Punch offset	
Bar code Multip.	
UPC plain-copy	
EAN Readline	
EAN sep. lines	
Cut speed.	6
Cut position	6
Double cut	6
X – print offset	
Y – print offset	
Punch mode	
Punch level	12

INTERF. PARAM.	
>EASYPLUGINTERPR	
Interface	
Spooler mode	
Printer ID no.	
Spooler size	

>COM1 PORT	
Baud rate	
No. of data bits	
Parity	
Stop bits	
Data synch.	
Frame error	

>COM2 PORT	23
Baud rate	23
No. of data bits	23
Parity	23
Stop bits	23
Data synch.	23
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Sens. punch-LS	
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Ribbon eco. limit	
Turn-on mode	
Interface delay	
Error reprint	
Single job mode	
Head resistance	
Temp. reduction	
Voltage offset	
Miss. label tol.	
Periph. device	
Singlestartquant	
External signal	
Signal edge	24
Print contrast	
Ram disk size	
Font downl. area	
Free store size	
Print Info Mode	
Reprint function	
Language	

(System parameter cont.)
Access authoriz.
Realtime clock

1. Only 64-xx dispenser with 4“ printhead **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only with realtime clock **10.** Only if SYSTEM PARAMETER > Application Mode = Save mode **11.** Only with Options Board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser version **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **17.** Only with 64-04/05/06 **18.** Only with Ethernet CPU board **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only if SYSTEM PARAMETERS > Periph. device = Dispenser **21.** Only if SYSTEM PARAMETERS > Periph. device = Int Rewinder **22.** Only for R&D **23.** Only with I/O board **24.** Not with I/O board 25. With Applicator Interface only **26.** Only if INTERF. PARAM. > COM2 PORT > Function Option = Barcode OLV **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA

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Status polarity	23
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TEXTILE PARAMETE
Changelabel Mode
Changelab Print
Changelab Length
Label Eject Mode

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Delete job	
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Parameter to CF	
System version	

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Matend adjust	
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Feed adjust	
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Send test	
Receive test	
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Com2 port test	23
Print test	

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> OPERATION DATA	
Serv. operations	
Headnumber	
Roll number	
Cutter number	6
Head run length	
Roll run length	
Cuts on knife	6
Tot. mat. length	
Tot. foil length	
Cuts on knife	6
Total head moves	
Head strobes	
Foil diameter	
Operation time	

> POWERSUPPLYDATA
Type

> CPU BOARD DATA
CPU identifier
PCB revision
FPGA version
MAC address
Serial number
Production date
PCB part number
Board part numb.

(Service Data cont.)

Manufacturer	13
Work place	13
Company name	13

> CF CARD SLOT
Card in slot

> PERIPHERAL DATA
Feed driver
Head driver
Peripheraldriver

> MEMORY DATA
Ram memory size
Flash mem size
Space for Jobs
Max. Labellength
Default values

1. Only 64-xx dispenser with 4“ printhead **3.** Only with 8-Dot-Emulation **4.** Only with 64-08 **5.** Only with rewinder option **6.** Only with cutter **7.** Only with USI interface **8.** Only with realtime clock **10.** Only if SYSTEM PARAMETER > Application Mode = Save mode **11.** Only with Options Board **12.** Only if PRINT PARAMETERS > Punch mode = Manual **13.** Only in production mode **14.** Only with 64-xx dispenser version **15.** Only if SYSTEM PARAMETERS > Autom. dot check = Continuous **17.** Only with 64-04/05/06 **18.** Only with Ethernet CPU board **19.** Only if DP INTERFACE > Interface type = USI Applicator **20.** Only if SYSTEM PARAMETERS > Periph. device = Dispenser **21.** Only if SYSTEM PARAMETERS > Periph. device = Int Rewinder **22.** Only for R&D **23.** Only with I/O board **24.** Not with I/O board 25. With Applicator Interface only **26.** Only if INTERF. PARAM. > COM2 PORT > Function Option = Barcode OLV **27.** Only if APPLICATOR PARA > Applicator type = PEP or PEP blow on **28.** Not if APPLICATOR PARA > Applicator type = LTP-LTPV or ASA

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PRINT INFO

➠ Printing of individual reports can be deactivated for certain options (e. g. for the infeed option).

A material width of 100 mm is necessary to print the reports. The status printout is approx. 200 mm long.

Printer status

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

A protocol can be printed to get an overview of customer-specific parameter settings (three pages).

➠ Which parameters are listed, depends on the printer type.

Systemversion : V2.46
Jan 18 2002
[R2.46 H2.46]
Printer type : Avery 64-05

Printer Parameter Menu

Print speed : 8 Inch/s
Feed speed : 8 Inch/s
Materialtype : Punched
Materiallength : 206.0 mm
Materialwidth : 65.0 mm
Punch offset : 0 mm
Bar code multip. : * 1
UPC plain-copy : In line
EAN Readline : Standard
Cut mode : Real 1:1 mode
Cut speed : 3 Inch/s
Cut position : 0.0 mm
Double cut : 0.0 mm
X - Printadjust : 0.0 mm
Y - Printadjust : 0.0 mm
Punchmode : Automatic

Printer Interface Menu

Easyplug Interpreter

Interface : Centronics
Spooler mode : Mult. print jobs
Printer ID no. : 1
Spooler size : 64 KBytes

COM1 Port Parameter

Baud rate : 9600 Baud
No. of data bits : 8
Parity : None
Stop bits : 1 Bit
Data synch. : RTS/CTS

Fig. 1: Printer Status printout, page one.

COM2 Port Parameter

Function Option	: None
Baud rate	: 9600 Baud
No. of data bits	: 8
Parity	: None
Stop bits	: 1 Bit
Data synch.	: RTS/CTS

Printer system menu

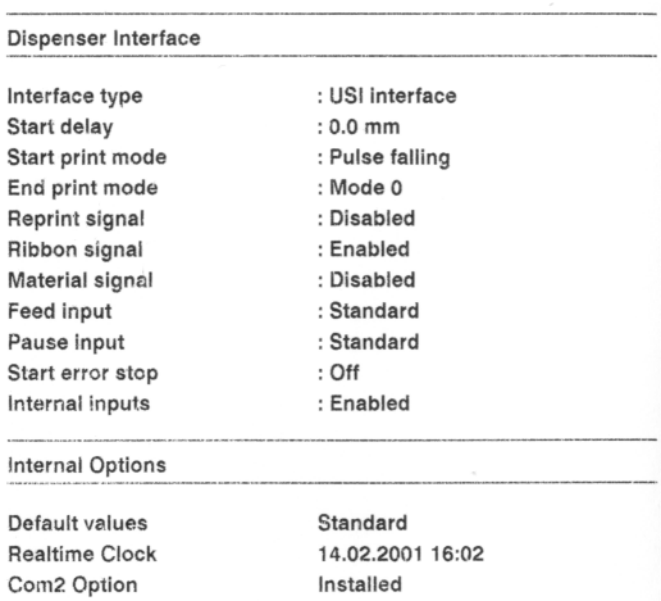
Foil end warning	: 25.4 mm
Autom. dot check	: Off
Print emulation	: Easyplug
Character sets	: IBM
Character filter	: Chars >= 20Hex
Light sens. type	: Punched
Sens. punch-LS	: 50 %
Ribbon autoecon.	: Disabled
Ribb. eco. limit	: 10.0 mm
Turn-on mode	: Online
Error reprint	: Enabled
Single-job mode	: Disabled
Head resistance	: 1277 Ohm
Temp. reduction	: 20 %
Voltage offset	: 0 %
Punch search qt.	: 2
Mat. end detect.	: Transparent
Periph. device	: Cutter
Singlestartquant	: 1
Start mode	: Edge
Start source	: Foot switch
External signal	: Disabled
Signal edge	: Falling edge
Print contrast	: 30 %
Ram disk size	: 512 KBytes
Font downl. area	: 256 KBytes
Free store size	: 512 KBytes
Language	: English
Signal / buzzer	: On
Access authoriz.	: Deactivated

Fig. 2: Printer Status printout, second page.

Listed items:

- Systemversion:
  - Shows the installed firmware version as well as the release date of this version.
  - Firmware version: R = firmware RISC processor, H = firmware H8 processor.
- Printer type:
  - Shows the printer type, which has been set using parameter *SERVICE FUNCTIONS > printer type* (e.g. Avery 64-04)
  - "USA" displayed after the printer type indicates that the USA font is loaded.
  - "8DOT" displayed after the printer type indicates that the 8-Dot emulation is loaded.

- Printer Parameter Menu
  Shows the setting of the parameters in the *PRINT PARAMETERS* menu.
- Printer Interface Menu
  Shows the setting of the parameters in the *INTERF. PARAM.* menu.
- Printer system menu
  Shows the setting of the parameters in the *SYSTEM PARAMETERS* menu.
- Dispenser Interface
  Shows the setting of the parameters in the *DP INTERFACE* menu.
- Internal Options
  – Default values: Shows the values which are used in case of a factory reset (Standard or Default). See parameter *SPECIAL FUNCTION > Default Values*.
  – Realtime Clock: Shows the set time and date, if a realtime clock is installed. In case of a too low battery, the line "Battery empty" is added.
  – 2. com port: Shows if an additionall serial Interface is installed (not supported).



Dispenser Interface

Interface type	: USI interface
Start delay	: 0.0 mm
Start print mode	: Pulse falling
End print mode	: Mode 0
Reprint signal	: Disabled
Ribbon signal	: Enabled
Material signal	: Disabled
Feed input	: Standard
Pause input	: Standard
Start error stop	: Off
Internal inputs	: Enabled

Internal Options

Default values	Standard
Realtime Clock	14.02.2001 16:02
Com2 Option	Installed

Fig. 3: Printer Status printout, page 3.

Memory status

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

A memory protocol can be printed to provide an overview of the distribution of the available memory capacity (one page).

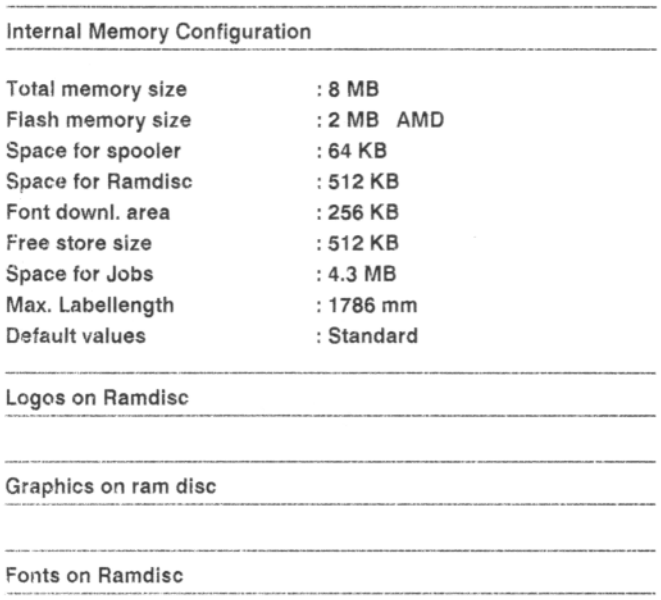

Internal Memory Configuration
Total memory size : 8 MB
Flash memory size : 2 MB AMD
Space for spooler : 64 KB
Space for Ramdisc : 512 KB
Font downl. area : 256 KB
Free store size : 512 KB
Space for Jobs : 4.3 MB
Max. Labellength : 1786 mm
Default values : Standard
Logos on Ramdisc
Graphics on ram disc
Fonts on Ramdisc

Fig. 4: Example of a memory Status printout.

Listed items:

- Internal Memory Configuration:
  - *Total memory size*: Memory installed in this printer.
  - *Flash memory size*: The code behind the actual memory size shows the manufacturer of the Flash RAM (MX = Macronix, AMD = AMD).
  - Space for spooler
  - *Space for Ramdisc*: Memory area allocated for use as Ramdisk. Can be set using parameter *SYSTEM PARAMETERS > Ram disk size*.
  - *Font downl. area*: Memory area allocated for downloaded fonts. Can be set using parameter *SYSTEM PARAMETERS > Font downl. area*.
  - *Free store size*: Memory area allocated for downloading and converting graphic files. Can be set using parameter *SYSTEM PARAMETERS > Free store size*.
  - *Space for Jobs*: partition of the memory which can be used for print jobs.
  - Max. Labellength: resulting from the memory assignment.
  - *Bootloader write access*: Refer to the Service Manual, topic section "Firmware", paragraph "Loading the bootloader".
  - *Default values*: Shows the values which are used in case of a factory reset (Standard or Default). See parameter *SPECIAL FUNCTION > Default Values*.
- Logos on Ramdisc:

Logos saved on RAM disc. Refer to Manual Cards, topic section "Application", paragraph "Compact Flash card".

- Graphics on Ramdisc:

  Graphics files saved on RAM disc. Refer to Manual Cards, topic section "Application", paragraph "Compact Flash card".

- Fonts on Ramdisc:

  Fonts saved on RAM disc. Refer to Manual Cards, topic section "Application", paragraph "Compact Flash card".

Font status

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Print samples of all installed characters, bar codes and line samples (6 pages).

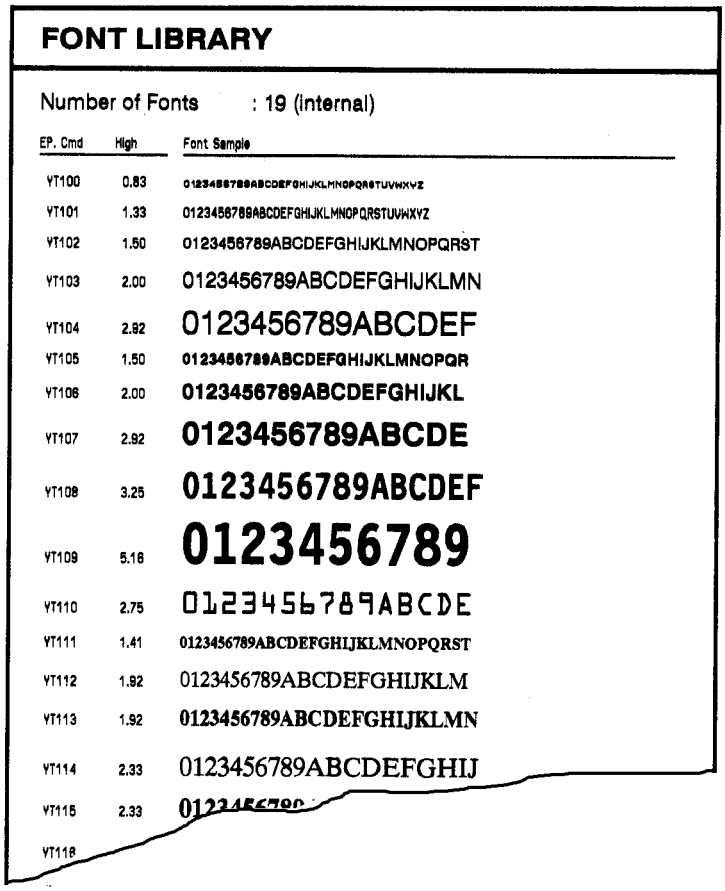
Page „Font Library“ shows a list of the internal fonts and line styles.

Internal Fonts

Use the Easy-Plug commands listet in the first column of the report (e.g. #YT100), to print using the appropriate font.

❍ Easy Plug commands: Refer to the Easy Plug Manual, topic section Description of Commands.

❍ For a list of all characters contained in the internal fonts, refer to the User Manual, topic section Internal Fonts.


FONT LIBRARY

Number of Fonts : 19 (internal)

EP. Cmd	High	Font Sample
VT100	0.83	0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ
VT101	1.33	0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ
VT102	1.50	0123456789ABCDEFGHIJKLMNOPQRST
VT103	2.00	0123456789ABCDEFGHIJKLMN
VT104	2.92	0123456789ABCDEF
VT105	1.50	0123456789ABCDEFGHIJKLMNOPQR
VT106	2.00	0123456789ABCDEFGHIJKL
VT107	2.92	0123456789ABCDE
VT108	3.25	0123456789ABCDEF
VT109	5.16	0123456789
VT110	2.75	0123456789ABCDE
VT111	1.41	0123456789ABCDEFGHIJKLMNOPQRST
VT112	1.92	0123456789ABCDEFGHIJKLM
VT113	1.92	0123456789ABCDEFGHIJKLMN
VT114	2.33	0123456789ABCDEFGHIJ
VT115	2.33	0123456789
VT116		

Fig. 5: Internal fonts print sample (first of several pages „Font Library“).

Internal Line Styles

Use the line style number (fist column) with one of the Easy Plug commands #YL or #YR to print lines in the matching style.

❍ Easy Plug commands: Refer to the Easy Plug Manual, topic section Description of Commands.

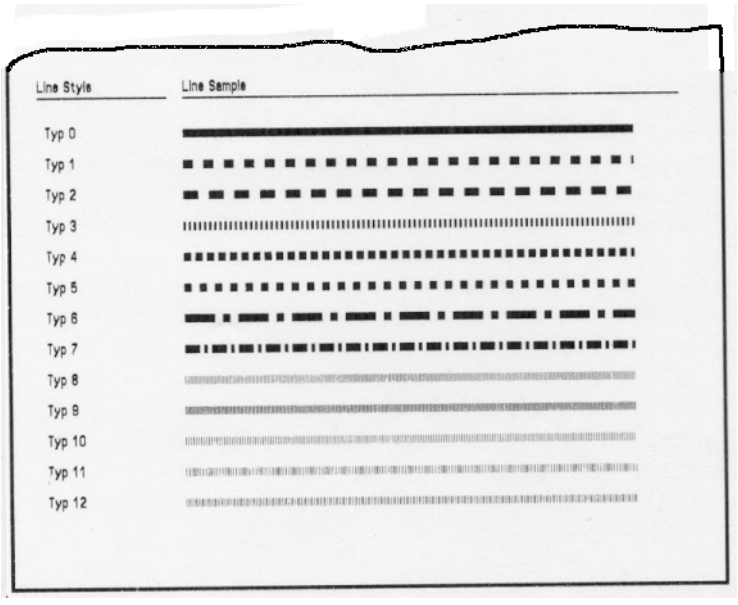


Fig. 6: Internal line styles print sample (bottom part of page „Font Library“)

➠ Additionally, the following line styles are available:

- 13: Checked pattern with 3 dot edge length
- 14: Checked pattern with 1 mm edge length
- 15: Checked pattern with 5 mm edge length

➠ The line width has to be defined as a multiple of the edge length of the checked pattern!

Internal bar codes

The pages titled „Barcode Library“ show print samples of the internal bar codes (see Fig. 7, Tab. 2:).

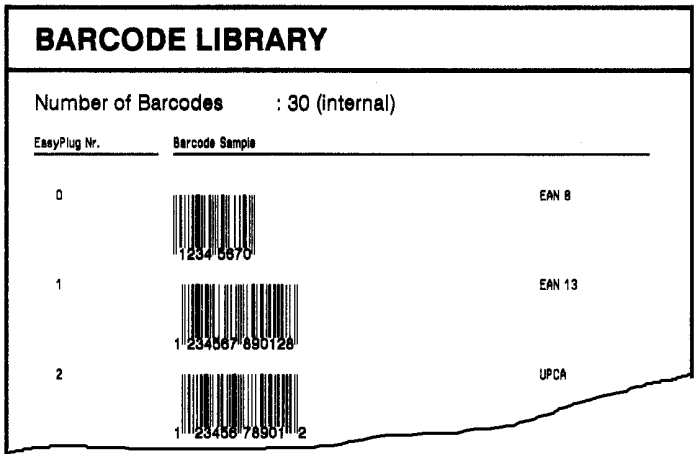


Fig. 7: Internal bar codes print sample (first of several pages „Barcode Library“).

- *Onedimensional bar codes* are printed by means of the Easy-Plug command #YB. The bar code is determined by the number in the first column of the subsequent table. This number is added to the command as a parameter.

❍ See manual Easy-Plug, topic section Description of Commands.

#	Bar code
0	EAN 8
1	EAN 13
2	UPCA
3	CODE 93
4	CODE 2/5 Interleaved
5	CODE 2/5 Matrix
6	CODE 2/5 5-Strich
7	CODE 39
8	CODABAR
9	UPCE
10	ADD ON 2
11	ADD ON 5
12	ITF
13	CODE 128
14	MSI

Tab. 2: Internal, one-dimensional bar codes.

#	Bar code
15	EAN 128
16	CODE 39 (3:1)
17	POSTCODE (Leit- und Identcode)
18	CODE 128 (UPS)
19	CODE 39 (2,5:1)
20	CODE 2/5 Interleaved Ratio 1:3
21	CODE 2/5 Matrix Ratio 1:2,5
22	CODE 2/5 Matrix Ratio 1:3
23	CODE 39 Extended
24	CODE 128 A
25	CODE 128 B
26	CODE 128 C
27	CODE 128 Pharmacy

Tab. 2: (Cont.)Internal, one-dimensional bar codes.

- *Two-dimensional bar codes* are printed by means of special Easy-Plug commands:

Easy-Plug command	Bar code
#IDM	Data Matrix Code
#MXC	Maxi Code
#PDF	PDF 417
#CBF	Codabar F
#CFN	Code 49

Tab. 3: Internal, two-dimensional bar codes.

- *Reduced Space Symbology* (RSS) and *Composite Component* (CC) bar codes are printed by means of the Easy-Plug command #RSS. The bar code is determined by the number in the first column of the subsequent table. This number is added to the command as a parameter.

#	Bar code
1	RSS-14
2	RSS-14 Truncated
3	RSS-14 Stacked
4	RSS-14 Stacked Omnidirectional
5	RSS Limited
6	RSS Expanded
7	UPC-A + CC-A/CC-B
8	UPC-E + CC-A/CC-B
9	EAN 13 + CC-A/CC-B
10	EAN 8 + CC-A/CC-B

Tab. 4: Internal RSS and CC bar codes.

#	Bar code
11	UCC/EAN 128 + CC-A/CC-B
12	UCC/EAN 128 + CC-C

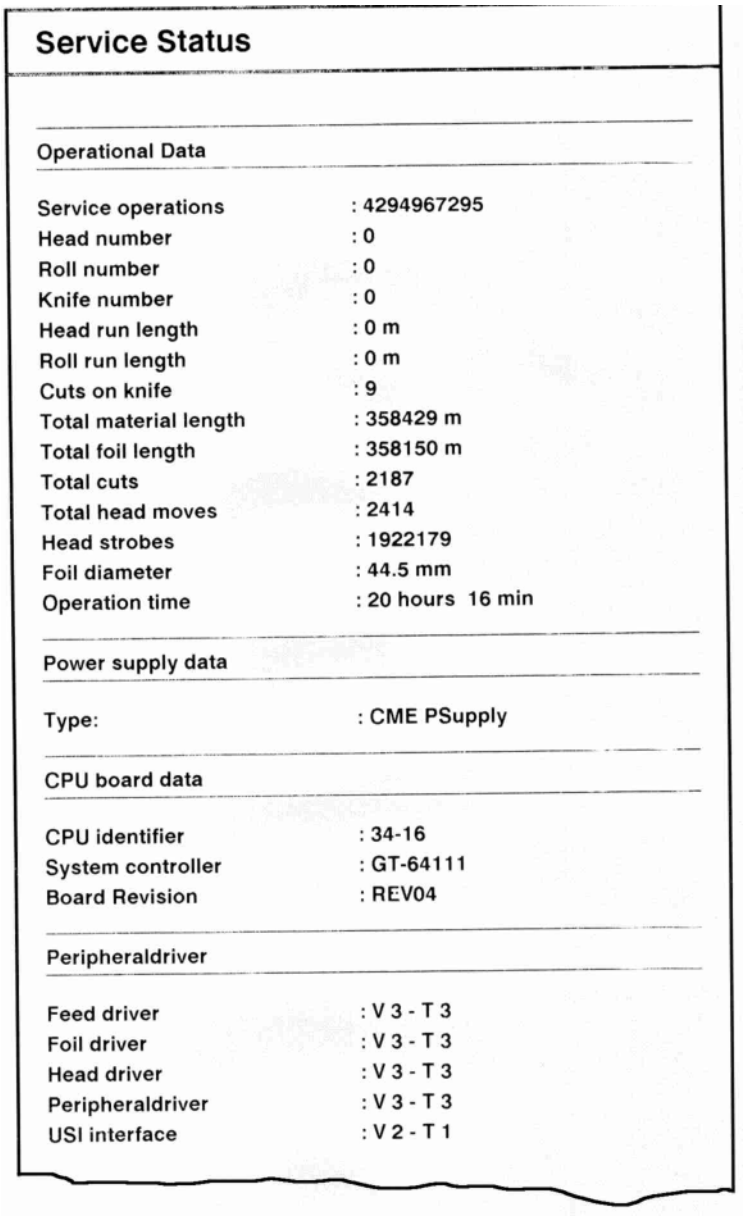
Tab. 4: Internal RSS and CC bar codes.

Service Status

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Print the Service status report to read about operation time, no. of services, no. of exchanged parts and other matters of service interest (one page).

Use the parameter *SERVICE FUNCTION > Serv. data reset*, to set all the counters to zero, which are listed on the printout.



Service Status

Operational Data

Service operations	: 4294967295
Head number	: 0
Roll number	: 0
Knife number	: 0
Head run length	: 0 m
Roll run length	: 0 m
Cuts on knife	: 9
Total material length	: 358429 m
Total foil length	: 358150 m
Total cuts	: 2187
Total head moves	: 2414
Head strobes	: 1922179
Foil diameter	: 44.5 mm
Operation time	: 20 hours 16 min

Power supply data

Type:	: CME PSupply

CPU board data

CPU identifier	: 34-16
System controller	: GT-64111
Board Revision	: REV04

Peripheraldriver

Feed driver	: V 3 - T 3
Foil driver	: V 3 - T 3
Head driver	: V 3 - T 3
Peripheraldriver	: V 3 - T 3
USI interface	: V 2 - T 1

Fig. 8: Example of a Service Status printout.

- For information on the operational data on the service status printout refer to paragraph > OPERATION DATA on page 112.
- For information on the power supply data on the service status printout refer to paragraph > POWERSUPPLYDATA on page 114.
- For information on the CPU board data on the service status printout refer to paragraph > CPU BOARD DATA on page 115.
- For information on the peripheral driver data on the service status printout refer to paragraph > PERIPHERAL DATA on page 116.

Dottest endless

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Dottest for application with endless label stock.

This function prints a pattern which enables trained personnel to check the adjustment as well as the function of the printhead.

64-xx / DPM / ALX 92x only, and only in supervisor mode:

If no dot check has been proceeded (by calling the parameter *SERVICE FUNCTION > Head dot test*) since powering on the printer, a test is started before printing the status report. Depending on the result, one of the following messages is printed on the bottom margin of the label:

- "All print dots o.k."
- "x print dots defective"

➠ 64-08 printers don´t proceed this dot check automatically, because this would be very time consuming. The printout shows the message:

- "Head Dot Test not yet executed"

If a dot test has already been performed since powering on the printer, the above showed messages are also displayed at 64-08 printers after proceeding a "Dottest endless“ or „Dottest punched".

❍ For information about the supervisor mode, refer to parameter *SYSTEM PARAMETERS > Access authoriz.*.

Test pattern

The „Dottest endless“ or „Dottest punched“ prints a pattern consisting of 33 rows filled with vertical lines on the upper label area. All lines have a constant distance of 4 dot. With every new row, the line pattern is shifted one dot. The resulting line-pattern repeats every four rows.
The test pattern shows missing dots clearly as white vertical lines running through the pattern.

The lower label area is filled with testpatterns, which are kept close to those used by Kyocera. The patterns are useful for printout comparison.

The bars underneath the test pattern allow the adjustment of the different zero lines.

Dottest punched

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Dottest for application with punched material.

❍ See parameter Dottest endless on page 32.

Reference label

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Prints a label with some examples of barcodes, fonts, logos... just try out!

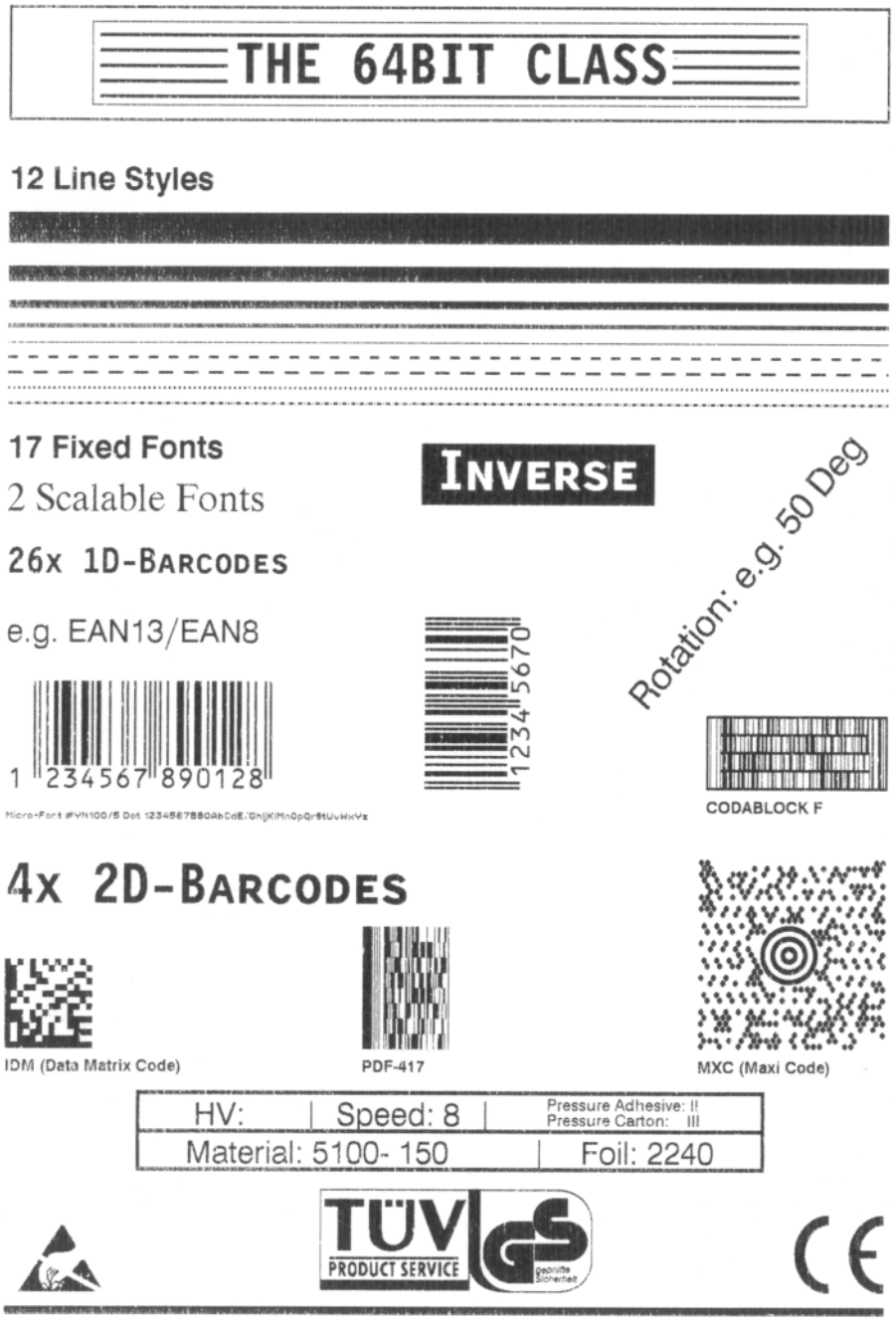


Fig. 9: Example of a Reference label printout.

PRINT PARAMETERS

Print speed

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The print speed (material feed) can be adjusted according to the ribbon and material combination being used in order to optimise the contrast depth and the density of the print image.

x inch/s

Setting range: 2 to 12 inch/s; Unit interval: 1 inch/s
Default setting: 8 inch/s

➠ Limitations:

- 64-06 / DPM 6" / ALX 926: Maximum print speed: 356 mm/s (14 Inch/s)
- 64-08: Maximum print speed: 229 mm/s (9 Inch/s)

Only DPM / ALX 92x:

Machines of the DPM / ALX 92x type provide the option to change the displayed unit between Inch/s and mm/s. Setting is done with the parameter *SYSTEM PARAMETERS > Speed unit*.

AP 5.4 only:

The maximum print speed depends on the applied printhead type!

x Inch/s
x mm/s

Setting range: 2 to 16 inch/s or 50 to 400 mm/s;
Unit interval: 0,2 inch/s or 5 mm/s; Default setting: 8 Inch/s

Feed speed

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The feed speed can be increased between print periods hereby reducing the total print time, particularly with long labels with a minimum printed surface.

Setting:
The value for the feed speed should not be set too high for print applications with long calculating units (e. g. consecutive numbering). This can help to avoid alternating between abrupt braking to 0 (zero) and acceleration to print speed.

➠ When altering the print speed, the feed speed is equal to the print speed. If a different feed speed is required, this must be set again.

x inch/s

Setting range: 2 to 12 inch/s; Unit interval: 1 inch/s
Default setting: 8 inch/s

(only DPM / ALX 924)
Machines of the DPM / ALX 924 type provide the option to change the displayed unit between Inch/s and mm/s.

❍ Setting is done using the parameter *SYSTEM PARAMETERS > Speed unit*.

x Inch/s
x mm/s

Setting range: 2 to 12 inch/s or 51 to 305 mm/s;
Unit interval: 0,2 inch/s or 5 mm/s; Default setting: 8 Inch/s

Material type

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Definition of the materials used. A distinction is made between reel material and gapped material (hole gaps, self-adhesive material with register gaps). The detected gap position corresponds to the start of the label.

➠ The value is overwritten by the appropriate Easy Plug command when sending label formats.

Endless If material is to be used without gaps.

Punched If material is to be used with gaps (default setting).

Material length

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The material length (label length) is the distance between the gaps, measured from the front edge (beginning) of a label to the front edge of the next label.

➠ The value is overwritten by the appropriate Easy Plug command when sending label formats.

xxx mm Setting range: 5 mm to "max. length entry"; Unit interval: 0.1 mm
Default setting: 100 mm

Maximum length entry: dependent on the print head width and memory configuration.

Material width

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Zero position of the left border. If the printer is working in line-printer mode, alterations can be made in millimetre units.

xxx mm Setting range: "min. width" to "max. width"; Unit interval: 0.1 mm
Default setting: 100 mm

- Min. width: dependent on the printer type
- Max. width: dependent on print head width and memory configuration.

❍ For detailed material width information, refer to topic section „Specifications“.

Punch offset

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The zero position can be determined offset in millimetre units from the detected gap position.

➠ The value is overwritten by the appropriate Easy Plug command when sending label formats.

xxx mm

Setting range: -5 to +max. Etikettenlänge; Unit interval: 0,1mm
Default setting: 0 mm

Maximum offset in feed direction: -5 mm

Minimum offset against feed direction: +max. Etikettenlänge

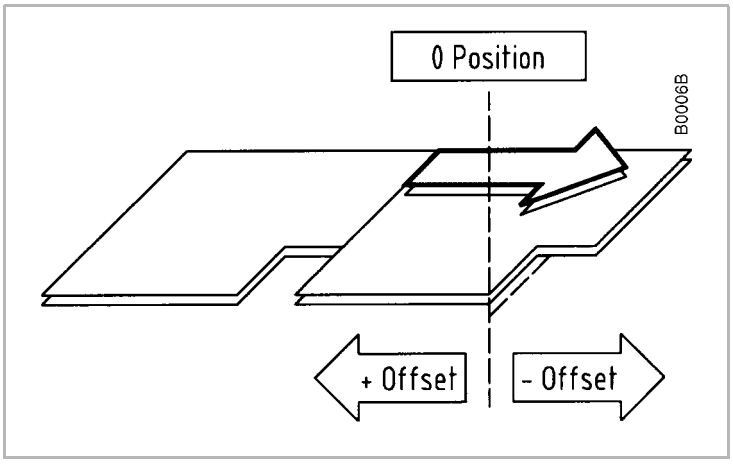


Fig. 10: Positive and negative offset in relation to the feed direction (arrow).

Bar code multip.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Bar code multiplication factor

Alters the bar code height by multiplication by a factor of 1 to 10 (BCHI factor).

xxx mm

Setting range: 1 to 10; Unit interval: 1; Default setting: 1

The actual bar code height is calculated by multiplying the value defined in the label layout (mask) by the bar code height enlargement factor.

Actual bar code height = (layout value + 1) * bar code height

Example:
The bar code height value is set = 3. With the Easy Plug command in the label layout, the value /4/ is given as the bar code height (1 is standard).
Result: (4 + 1) * 3 = 15 mm.
The bar code is printed with a height of 15 mm.

UPC plain-copy

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The position of the first and last digit in the plain-copy line - underneath the bar code - can be adjusted as required.

Raised First and last digit of the UPCA or first digit with the UPCE are raised (default setting).

In line All digits in the decoded line are in line under the code.

EAN Readline

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

<> Signs Readline enclosed in "<>" signs or terminated by a ">"-Sign (EAN 13).

Standard Readline without "<>" or ">" signs (default).

EAN sep. lines

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

EAN separation lines. Parameter for controlling of EAN or UPC barcodes if they are printed without readline.

With readl. only (Default) The seperation bars at the beginning, end and in the middle of the barcode are only long, if the barcode is printed with a readline.

Always long The seperation bars at the beginning, end and in the middle of the barcode are always long, regardless if the barcode is printed with or without readline. The position of the barcode is the same as with the readline option switched on.

Rotated Barcodes

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Normal „Normal“ printing without a special processing of rotated bar codes.

Optimized (Default setting) The line and gap widths of rotated bar codes are modified in order to improve their readability.

Dispense Mode

64-xx [a)]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) 64-xx with dispenser only.

Governs the run of the print-dispense procedure.

➠ The ribbon autoeconomy function can only be used in "Real 1:1 Mode"!

Dispense only With this setting, the DPM/ALX 92x can be used as a mere dispenser without processing print jobs. Set the material length before you use this function.

❍ See parameter *PRINT PARAMETERS > Material length*.

After calling "Dispense only", the printer restarts; afterwards, the following is displayed:

Dispense only Labels	0 = Number of dispensed labels.
0	

The parameters menu can be activated as usual after having switched to the offline mode by pressing the Online button two times.

Normal 1:1 Mode

- The printer cannot print on the whole label surface. A stripe at the label beginning stays unprinted.
- The label is being dispensed while printing.
- The output volume is at its maximum level.

➠ The width of the unprintable stripe is calculated as follows:
Distance print line to dispensing edge + Dispense position (see Tab. 5:)

Dispensing edge	Distance print line to dispensing edge
long	39.8 mm
short	24.2 mm

Tab. 5: A stripe of the width "distance print line to dispensing edge + dispense position" can not be printed in "Normal 1:1 Mode.

❍ Also refer to parameter *PRINT PARAMETERS > Dispense position*.

❍ A graphic can be found under *PRINT PARAMETERS > Cut mode > Normal 1:1 mode*.

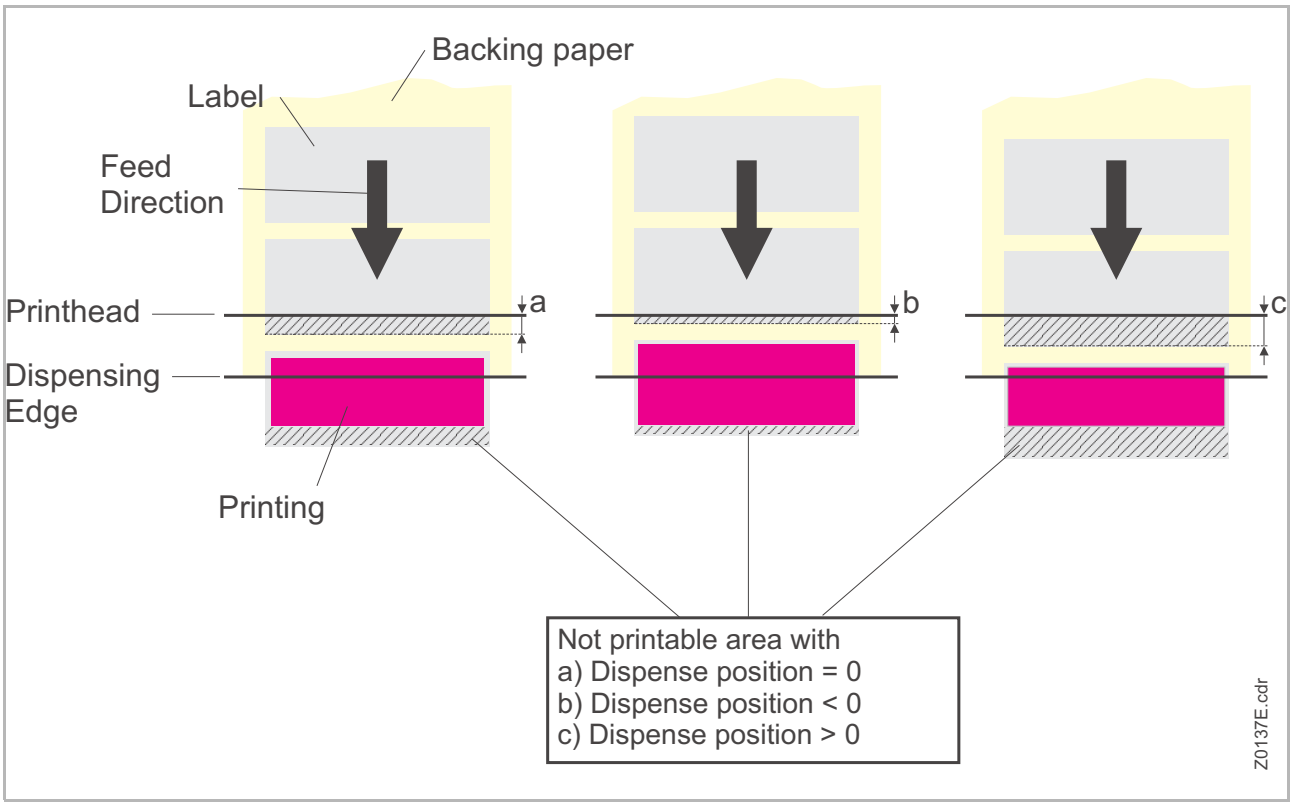


Fig. 11: The size of the not imprintable area in Normal 1:1 depends of the setting of parameter "SYSTEM PARAMETERS/ Dispense Position".

Batch Mode

- The printer can print the whole label surface.
- Dispensing of the label takes place during printing. Printing of the next label is interrupted until the label is completely dispensed.
- The output volume is at its maximum level.

➠ The *Batch mode* is optimised for printing and dispensing at high speeds. Due to this, it is not possible to use all features awaliable in modes *Normal 1:1* or *Real 1:1*. Also consider, that printing data must be available on time and in sufficient quantity.

➠ The following Job/Parameter-combinations must not be used:

- Jobs with counter fields
- Jobs with variable fields
- *SYSTEM PARAMETER* > *Dispensing mode* must be set to "fast".
- The USI reprint function is not supported. *DP INTERFACE* > *Reprint signal* must be set to "deactivated".
- Foil save

❍ A graphic can be found under *PRINT PARAMETERS* > *Cut mode* > *Batch mode*.

Real 1:1 Mode (Default setting)

- The printer can print the whole label surface.
- After dispensing a label, the beginning of the next label is drawn back under the print head.
- The output volume is lower than in *Batch Mode* or *Normal 1:1 Mode*.

❍ A graphic can be found under *PRINT PARAMETERS* > *Cut mode* > *Real 1:1 mode*.

Dispensposition

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) 64-xx with dispenser only.

Dispense position

Adjusts the dispense position in or against the feed direction. Depending on the set dispense position, the dispensed label sticks to the backing paper with a more or less wide strip (Fig. 11). The required width of this strip depends on the further processing.

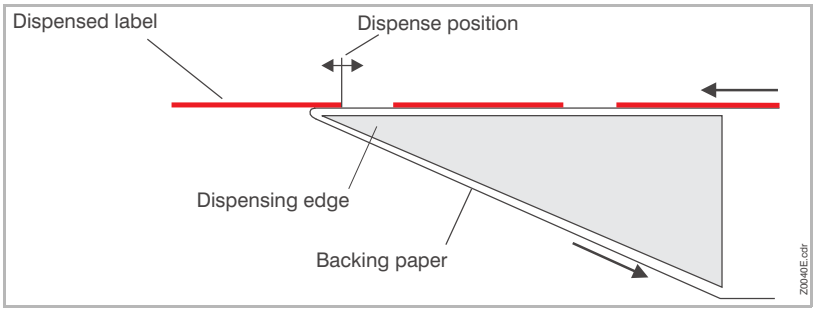


Fig. 12: Dispense position (= stopp position) of the dispensed label.

x.x mm

Setting range: -30.0 to +20.0 mm; Unit interval: 0,1 mm; Default setting: depends on the setting of the parameter *SYSTEM PARAMETERS > Application mode* (see Tab. 6:).

Application mode	Default setting
LTS 80/400	0.0 mm
LTS 80/200	0.0 mm
manual	-6.0 mm

Tab. 6: Different default settings, depending on the value of parameter "Application mode".

The default setting takes effect in one of the following cases:

- Factory settings
- ❍ See parameter *SPECIALFUNCTION > Factory settings*.
- Alteration of the parameter setting for "Application mode"..

Cut mode

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4 [a]	AP 7.t

a) Only with mounted and activated cutter („SYSTEM PARAMETERS > Periph. device“ = „Cutter“).

This is where the procedure for the label output and cut is defined.

Real 1:1 mode

The whole surface of the label is printable. The label is pushed forward to the cutter for cutting. After the cut, the beginning of the next label is drawn back under the print head. This reduces the output volume (in relation to a certain time).

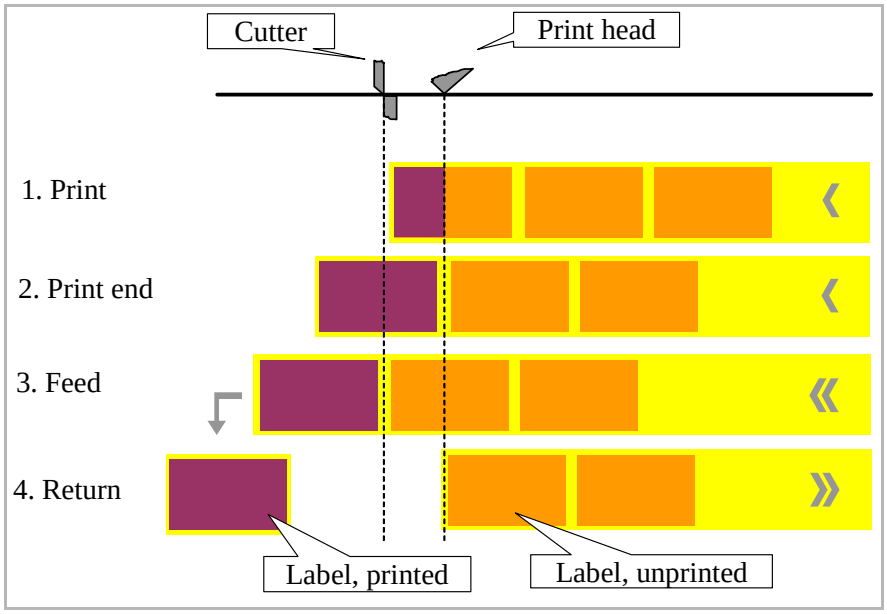


Fig. 13: Printing process (schematic) in „Real 1:1 Mode“.

Batch mode

The whole surface of the label is printable. Cutting takes place during printing. This can result in brief interruptions within the print zone of the following label. The output volume is at its maximum level.

Requirements for the batch mode are:

- Ribbon economy is not active (parameter *SYSTEM PARAMETERS > Ribbon autoecon.* = "Deactivated")
- Material length >18 mm (>14 mm on the TTX 350)
- Number of cuts for a print job - at least 2 or more

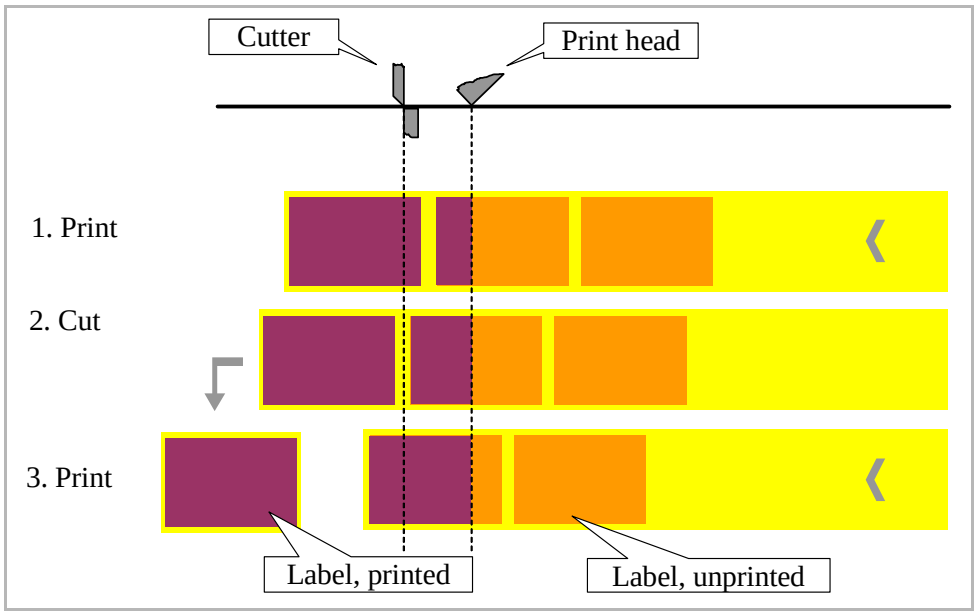


Fig. 14: Printing process in Batch mode (schematic).

Normal 1:1 mode

In N1:1 mode, cutting takes place during printing. The zero-line of the printing is shifted 18 mm in y-direction. This offset equals the distance cutter-prin-thead. Caused by this shifting, the first 18 mm of the label are not printable. These measurement corresponds to the distance between print head and cutter. The output volume is at its maximum level.
(The offset of the zero-line is caused historically and serves the compatibility of older printer models).

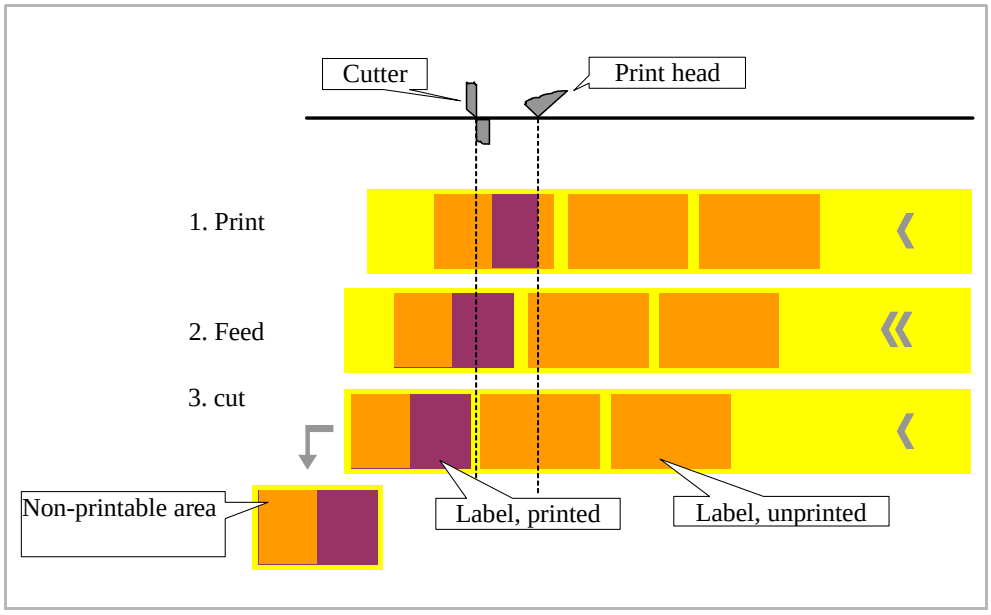


Fig. 15: Printing process in Normal 1:1 mode (schematic).

Cut speed

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4 [a]	AP 7.t [a]

a) Only with mounted and activated cutter („SYSTEM PARAMETERS > Periph. device“ = „Cutter“).

The cut speed is to be adjusted to the material thickness and strength.

x inch/s Setting range: 2 to 5 inch/s; Unit interval: 1 inch/s

- 2 inch/s: extremely slow; for thick and strong material
- 5 inch/s: extremely fast; for thin material

Cut position

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4 [a]	AP 7.t [a]

a) Only with mounted and activated cutter („SYSTEM PARAMETERS > Periph. device“ = „Cutter“).

The cut position is identical to the detected gap position, i. e. with the start of the label. Fine settings to meet specific customer requirements can be programmed using the parameter PRINT PARAMETER/Cut position.

x inch/s Setting range: -2.0 to +2.0 mm; Unit interval: 0.1mm

- Maximum offset in feed direction: -2.0 mm
- No offset: 0 mm
- Minimum offset against feed direction: -2.0 mm

Double cut

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4 [a]	AP 7.t [a]

a) Only with mounted and activated cutter („SYSTEM PARAMETERS > Periph. device“ = „Cutter“).

Joining grids or the gap area between the labels can be removed using a double cut, thereby improving the outline.

The first cut is offset by the distance set from the recognized gap position away in the feed direction, the second cut is made at the gap position.

A possible correction of the cut position ("Cut position" function) is calculated for both cuts and must be taken into consideration.

x inch/s Setting range: 0.0 to 5.0 mm; Unit interval: 0.1mm

Normal simple cut: 0.0 mm

➠ The smallest possible double cut distance of 1.0 mm must be adhered to!

Rewind direction

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4 [a]	AP 7.t

a) Only with mounted and activated (external) rewinder („SYSTEM PARAMETERS > Periph. device“ > „Rewinder“).

Determines the sense of rotation of the optional Rewinder.

Printing outside Rewind direction: The printed label is facing outside.

Printing inside Rewind direction: The printed label is facing inside.

X - print offset

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The zero point of the mask is moved in relation to the edge of the label on the X- axis, i. e. lengthways to the material.

➠ If the setting is changed, while the print job is stopped, the printer recalculates the format using the changed values.

➠ Caution with graphics, which are generated via one of the Easy Plug commands #YI, #YIR or #YIB! If the graphics is shifted beyond the label border as a consequence of changing the parameter "X-print offset", the part of the graphics which "juts out" will get lost.

x inch/s Setting range: -2.0 to +2.0 mm; Unit interval: 0.1mm
Default setting: 0.0 mm

- Maximum offset away from the edge of the label: +2.0 mm
- No offset: 0.0mm
- Maximum offset towards the edge of the label: -2.0 mm

Y – print offset

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The zero point of the mask is moved in relation to the gap position on the Y-axis, i. e. in the feed direction.

➠ If the setting is changed, while the print job is stopped, the printer recalculates the format using the changed values.

➠ Caution with graphics, which are generated via one of the Easy Plug commands #YI, #YIR or #YIB! If the graphics is shifted beyond the label border as a consequence of changing the parameter "Y-print offset", the part of the graphics which "juts out" will get lost.

x inch/s Setting range: -2.0 to +2.0 mm; Unit interval: 0.1mm
Default setting: 0.0 mm

- Maximum offset in feed direction: +2.0 mm
- No offset: 0.0mm
- Minimum offset against feed direction: -2.0 mm

Punch mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Automatic

Automatic mode, for material with a contrast zone = gap in the label.

"Automatic" is the default setting, suitable for all materials with which there is a difference in the transparency between the label and gap of more than 2 values (see Description, sensor check).

Manual

Manual setting, for material with several varying contrast zones. Settings are made using the parameter *PRINT PARAMETER > Punch level*.

The range of the value automatically measured by the gap detection can be defined specifically for the label material. This allows materials with high-contrast proof points within the label to be processed, which would otherwise be measured as 'false' gaps by the system. The corresponding setting value is then equal to, or smaller than, the value measured at the actual gap.

Punch level

64-xx a)	DPM a)	ALX 92x a)	AP 4.4 a)	AP 5.4 a)	AP 7.t a)

a) Only if „PRINT PARAMETERS > Punch mode“ = „Manual“.

xxx mm

Setting range: 0 to 255; Unit interval: 1

The value xxx stands for the current contrast within the photoelectric switch of the material which has just been inserted. This serves to determine a threshold value for the inserted material.

Example

Self-adhesive material with black bars lengthways across the label

- Reading:
  – Masking paper: 30
  – Masking paper + label: 60
  – Masking paper + label + black bars: 190
- Setting value: 60

  A setting value of 60 means that all readings over 60 are ignored, therefore also the reading 190 at the black bar.

INTERF. PARAM.

Interface parameter

> EASYPLUGINTERPR

Interface

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Interface type

This parameter sets the interface, by which the printer will receive data.

Serial Com1 Serial interface Com1.

❍ Selection of the type of serial interface is done with parameter *INTERF. PARAM > EASYPLUGINTERPR > Serial Port Mode*.

Serial Com2 Serial interface Com2.

➠ Only with optional I/O board mounted.

➠ Mounting the I/O board changes the parameter SERVICE FUNCTION > Easy Plug Monitor: The monitor data will be transmitted via Com1.

Centronics Parallel interface (Centronics); Default setting

Only for Ethernet interface (10/100 Base T):

TCP/IP Socket Print data can be sent to the printer via a TCP/IP socket

LPD Server Print data can be sent to the printer via the LPR/LPD-protocol

USB USB 1.1 interface

Spooler mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The operating mode of the spooler determines whether print series are processed individually, or whether the spooler can receive print data when printing several series.

Single print job Single print series mode (the interface can only receive data after printing the required number of labels of a single series)

Mult. print jobs Multiple print series mode (the interface can receive data while the series is being printed)

Printer ID No.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Printer identification number

Determines the identification number of the printer. In such a way, the printer can be addressed by the Easy Plug command #!An (n=printer ID).

The use of ID numbers is in particular reasonable for data transfer by RS422/485 interface, if several printers are connected by one data line. Each of the connected printers then only incorporates the data mapped to him by #!An command.

xx Setting range: 0 to 31; Unit interval: 1

Spooler size

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The memory capacity of the printer buffer can be set according to the requirements of each customer.

xxx Kbyte Setting range: 96 to 256 KBytes; Unit interval: 16 KBytes

➠ CAUTION! - All data present in the printer buffer is deleted when altering the spooler size!

The maximum print format is influenced by the spooler size if no plug-in card is used for memory expansion.

> COM1 PORT

Baud rate

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Data transfer speed

Speed of data transfer using the serial interface.

xxxxxx Baud Setting range: 300 to 115200 Baud; Unit interval: 300/600/1200/2400/4800/9600/19200/38400/115200

No. of data bits

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

This parameter can be defined in connection with both the serial and the parallel interface.

7 7 Data bits

8 8 Data bits

Parity

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Defines the parity check of serial transmitted data.

The parity bit is for checking data transmission. If the check shows an error, a corresponding message is displayed. The setting must be identical at the sender and the receiver. Normally transmission is set without a parity bit.

Odd Odd parity.
A parity bit is added so that there is an odd number of 1 Bits.

Even Even parity.
A parity bit is added so that there is an even number of 1 Bits.

None No check bit. Sending and receiving without check bit.

Always zero Check bit is always 0 (zero). Sending and receiving without parity check.

Stop bits

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Number of stop bits

Number of stop bits at the serial interface.

1 Bit 1 stop bit

2 Bit 2 stop bits

Data synch.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Data synchronisation at the serial interface.

RTS/CTS Data synchronisation through hardware

XON/XOFF Data synchronisation through software

Frame error

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Display (Default) An error message is displayed, if a framing error is detected while the printer is receiving serial data.

Ignore Framing errors will be ignored, no error messages are displayed.

> COM2 PORT

Function Option

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) With mounted and connected options board only.
b) With mounted and connected I/O board only.

Selects devices, which can be connected to the printer via serial interface.

Barcode OLV Online Verifier (OLV), for verifying the printed bar codes.

➠ This function is not supported yet.

None No device connected.

Baud rate

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) With mounted and connected options board only.
b) With mounted and connected I/O board only.

❍ See parameter Baud rate on page 46.

No. of data bits

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) With mounted and connected options board only.
b) With mounted and connected I/O board only.

❍ See parameter No. of data bits on page 46.

Parity

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) With mounted and connected options board only.
b) With mounted and connected I/O board only.

❍ See parameter Parity on page 47.

Stop bits

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) With mounted and connected options board only.
b) With mounted and connected I/O board only.

❍ See parameter Stop bits on page 47.

Data synch.

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) With mounted and connected options board only.
b) With mounted and connected I/O board only.

❍ See parameter Data synch. on page 47.

Frame error

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) With mounted and connected options board only.
b) With mounted and connected I/O board only.

❍ See parameter Frame error on page 47.

Serial Port Mode

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) With mounted and connected options board only.
b) With mounted and connected I/O board only.

Setting of the serial interface type.

RS232 Sets Com1 to RS 232.
Data synchronisation may be done by hardware (RTS/CTS) or by software (XON/XOFF). Maximum cable length is 15 m.

RS422 Sets Com1 to RS 422.
RS 422 is a 4 wire point to point connection, suitable for only one device. Receiver and driver of the printer are always enabled. Data synchronization is only possible by software (XON/XOFF). Maximum cable length is 1 km with twisted telecommunication cable.

RS485 Sets Com1 to RS 485.
RS 485 is a 2 or 4 wire bus system for up to 30 devices. The printer´s receiver is always enabled, the printer´s driver is only enabled, if the printer sends data to the host. Data synchronization is only possible by software (XON/XOFF). Maximum cable length is 1 km with twisted telecommunication cable.

> CENTRONICS

PnP function

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Disabled The printer doesn´t send any identification signals to the Centronics port.

Enabled The printer sends identification signals via the Centronics port (if any is connected) to the host computers Windows operating system. Windows will search for an appropriate driver. (Default setting).

Select signal

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

➠ Only supported with CPU board A2292 and A2293!

Always online (Default setting) The select signal is always enabled.

Offline inactive The select signal is only enabled if the printer is switched to offline mode.

SelectIn signal

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

➠ Only supported with CPU board A2292 and A2293!

Supported (Default setting) The selectIn signal is supported.

Not supported The selectIn signal is not supported. By this, the Centronics interface functions independent of the connected selectIn level.

> ETHERNET PARAM.

Ethernet speed

64-xx a)	DPM a)	ALX 92x a)	AP 4.4	AP 5.4	AP 7.t

a) Only with a CPU board providing an ethernet connection.

Auto negotioation The communication speed is selected automatically.

10M half duplex The communication speed is set to 10 MBit/s half duplex.

10M full duplex The communication speed is set to 10 MBit/s full duplex.

100M half duplex The communication speed is set to 100 MBit/s half duplex.

100M full duplex The communication speed is set to 100 MBit/s full duplex.

IP addressassign

64-xx a)	DPM a)	ALX 92x a)	AP 4.4	AP 5.4	AP 7.t

a) Only with a CPU board providing an ethernet connection.

➠ A change of this parameter setting forces a printer restart.

Fixed IP address This setting activates the parameters "Net mask" and "Gateway address" (see below).

DHCP IP address is assigned automatically. The assigned IP address is displayed for a moment on the printer display, while the printer is starting.

IP address

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with a CPU board providing an ethernet connection.

xxx.xxx.xxx.xxx Setting range per xxx value: 0 to 255

Change between the digits by pressing the Cut or Feed button; Acknowledge the setting by pressing the Online button. After a change of the IP address, the printer will reset automatically.

Net mask

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with a CPU board providing an ethernet connection.

xxx.xxx.xxx.xxx Setting range per xxx value: 0 to 255

Depending on the set IP address appears a default value.

➠ We recommend to use the default value!

Gateway address

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with a CPU board providing an ethernet connection.

xxx.xxx.xxx.xxx Setting range per xxx value: 0 to 255

000.000.000.000 = no gateway is used

Port address

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with a CPU board providing an ethernet connection.

Setting range: 1024 to 65535. Default: 9100.

MAC address

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with a CPU board providing an ethernet connection.

Displays the MAC address of the CPU board. This address can not be changed in the parameter menu.

FTP server

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The File Transfer Protocol (FTP) server (RFC959) allows access to the RAM disk inside of the printer and, if available, to the CompactFlash-card. The FTP server is capable of multisession mode, without evaluating the user name whe logging in. The password must match the set password (see below).

The FTP server can be used with the following clients:

- GNU Midnight Commander 4.6.0 (OS: Linux)
- WS-FTP Pro 5.0 (OS: Windows NT/95)
- MS-IE 5.0, 5.5, 6.0 (OS: Windows NT/95)

Folder structure	**Comment**
CF	This folder is only visible with a CF-card inserted.
FONTS	Folder for font files on CF-card
FORMATS	Folder for print job files on CF-card
GRAPHICS	Folder for graphic files on CF-card
LOGOS	Folder for logo files on CF-card
FONTS	Folder for font files on the internal RAM disk
GRAPHICS	Folder for graphic files on the internal RAM disk
LOGOS	Folder for logo files on the internal RAM disk

Tab. 7: This folder structure is visible in the FTP client window, if a CF-card is inserted into the printer card slot.

Enabled Switches the FTP server *on*.

Disabled Switches the FTP server *off*.

FTP password

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t [a)]

a) Only in production mode.

Input of the FTP server password by means of a connected keyboard or the printers operation panel. Default setting: „avery“.

Changing the password:

1. Press the Esc button. The cursor jumps to the first character.
2. Press the Cut- or Feed button until the wanted character appears. Acknowledge by pressing the Online button.
3. Put in the next character.
4. Acknowledge the new password by pressing the Online button.

➠ If a keyboard is connected, this can be used for typing in the password.

WEB server

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The web server may be used to

- read out or change parameter settings of the printer into a web browser
- Operate the printer via a web browser.

Requirements for use of the web server function:

- Network connection of the printer
- *INTERF. PARAM. > ETHERNET PARAM. > IP Addressassign* must be set to „DHCP“.
- *INTERF. PARAM. > ETHERNET PARAM. > WEB server* must be set to „Enabled“.

Starting the web server:

1. Write down the printers IP address (*INTERF. PARAM. > ETHERNET PARAM. > IP address).*
2. Start the web browser.
3. Insert into the address field:
   http://[IP address without leading zeros]/interface.

   Example: IP address = 144.093.029.031

   Input: http://144.93.29.31/interface
4. Click „Login“.
5. Type in user name (user1) and password (pass1).

   If the login was successful, you will find the following menu items at the left window margin:

Menu item	Function
Home	
Logout	Interrupt the connection
Parameter	Opens the parameter menu. By clicking on submenus and parameters, those can be opened and the parame-ter setttings be changed.
Display view	Opens the display operation panel
Download	Starts the FTP server
Help	Help texts

Tab. 8: Functions of the web server.

Enabled Switches the web server *on*.

Disabled Switches the web server *off*.

SYSTEM PARAMETERS

Head disp dist.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

For setting the distance between printhead and dispensing edge.

xxx.x mm Setting range: 10.0 to 100.0 mm; Unit interval: 0.1 mm;
Default setting: 20 mm

Speed unit

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4

The print or feed speed can optional be set in mm/s or in inch/s.

mm/s Set speeds in mm/s

Inch/s Set speeds in inch/s (default)

Foil end warning

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

For setting a limit diameter for the ribbon roll. If the ribbon roll diameter falls below the set value, the ribbon signal at the USI interface will be switched.

❍ Refer to parameter description *DP INTERFACE > Ribbon signal*.

x.xx mm Setting range: 25.4 to 50.0 mm; Unit interval: 0.1 mm;
Default setting: 25.4 mm

Display mode

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) 64-xx with dispenser only.

Makes the *already* printed labels appear in the display instead of the *not yet* printed ones.

Job rest quant. Display of the *not yet* printed labels of a print job.

➠ The counter keeps it´s value even after switching the printer off.

Dispense counter Counting of start pulses. Activate the counter by selecting "Dispense counter". The counted number appears on the display after the parameter *Dispense counter* (see below) has been selected.

Dispense counter

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) 64-xx with dispenser only.

Dispense counter xxxxxx	xxxxxx = Number of dispensed labels.

➠ The displayed value can be varied by pressing the Cut or Feed button.

There are two ways of setting back the counter:

- Set the parameter *Display mode* (see above) to "Job rest quant." , then back to "Dispense counter" and confirm by pressing the Online button.
- Reduce the displayed number by pressing the Cut button.

Autom. dot check

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Automatic dot check

Checks the print head for defective dots. The dot check can be carried out either after powerering on the printer or in print pauses between print jobs.

Continuous

The dot check is carried out in pauses between print jobs. If a new print job arrives bevor the dot check is done, the print job will be prefered. The printer then interrupts the dot check and proceeds later with the next "opportunity" at the last tested dot.

The parameters *Early dottest, Latest dottest, Dottestarea from, Dottestarea to* determine the conditions under which the dot check is executed.

➠ Those parameters show up only,

– if "continuous" has been selected
– after the following automatic restart of the printer!

Power on only

The dot check is proceeded immediately after powering on the printer. During testing appears the – blinking – display message:

```
OFFLINE    0 JOBS
Head  dot  test
```

Off

The automatic dot check is switched off.

Early dottest

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only if „SYSTEM PARAMETER > Autom. dot check“ = „Continuous“.

Earliest dot check

Determines the number of printed labels, after which the dot check should at the earliest start.

Example:
The setting 3 means that the dot check starts in the first printing pause after three printed labels. After a successfully executed dot check starts the next dot check again in the first pause after three printed labels.

after x label Setting range: 1 to 9999; Unit interval: 1; default setting: 10

Latest dottest

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only if „SYSTEM PARAMETER > Autom. dot check“ = „Continuous“.

Determins the number of printed labels, after which the dot check must be finished.

Example:
The setting 5 means that the dot check has to be finished at the latest after the fifth printed label. If necessary, printing is interrupted after the fifth label. After a successfully proceeded dot check has the next dot check again to be finished after five labels.

after x label Setting range: 1 to 9999; Unit interval: 1; default setting: 0

➠ The setting "after 0 label" means, that the dot check will possibly be never finished! – given a high utilization of the printer (A printing pause will never be forced).

➠ The value for "Latest dottest" must be set higher than the value for "Early dottest"! (exception: value 0).

Dottestarea from

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only if „SYSTEM PARAMETER > Autom. dot check“ = „Continuous“.

Limitates the area of a print head, in which the dots are checked. The parameter sets the lower border of the dot check area. The value equals the distance to the left print head end in mm, looked at the print head from above (see Fig. 13).

x mm Setting range: refer to Tab. 3; Unit interval: 1; default setting: 0 mm

Printer type	Setting range in mm	No. of dotss
64-04 / Chess 4	0-107	1280
64-05 / Chess 5	0-128	1536
64-06 / Chess 6	0-160	1920
64-08 / Chess 8	0-214	2560

Tab. 9: Setting range for the dot check, depending on the print head width. Right column: Total number of dots of the print head.

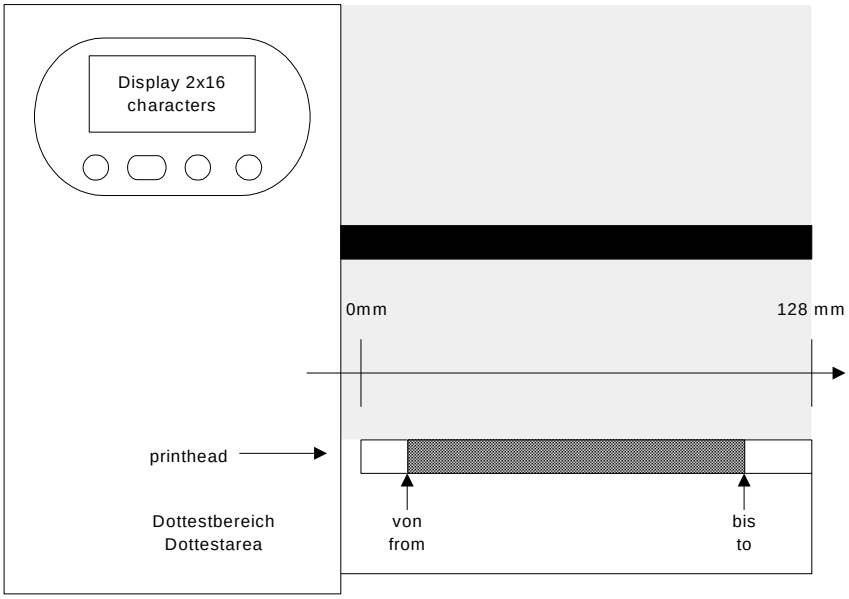


Fig. 16: Dot check area (=Dottestarea) of the printer (schematic).

Dottestarea to

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only if „SYSTEM PARAMETER > Autom. dot check“ = „Continuous“.

Upper border of the dot check area. The value sets the distance in mm to the left print head end, looked at on the print head from above.

x mm Setting range: refer to Tab. 3; Unit interval: 1; Default setting: 0 mm

Print emulation

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Emulation is the language in which the printer receives and processes data.

Easy Plug:
With Easy Plug emulation, the command which has been sent is printed out as label text.

Lineprinter:
In Lineprinter and Hex Dump emulation, commands are printed out in the form of a list with the character set 12.

➠ When setting Lineprinter emulation or Hex Dump emulation, Easy Plug commands which have not yet been processed are deleted!

Easyplug Easy Plug emulation

Lineprinter Lineprinter (or similar to Lineprinter), print-out of the print command.

Hex Dump Print-out in hexadecimal format.

Character sets

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Setting the character set:

- *8bit*: Choose between IBM and ANSI character set.
- *7Bit*: Additionally to the IBM and ANSI character sets, some country specific character sets are provided, which have some characters allocated differently (see tab.)

➠ The country specific character sets are only suitable for older 7bit applications!

Decimal	35	36	64	91	92	93	94	96	123	124	125	126	>127
ASCII	#	$	@	[	\	]	^	‘	{	|	}	~	
ANSI (CP 1252)	#	$	@	[	\	]	^	`	{	|	}	~	print
IBM	#	$	@	[	\	]	^	`	{	|	}	~	print
Special	ƒ	¢	blank	blank	¼	½	blank	blank	«	•	»	±	blank
Norway	#	$	@	Æ	¥	Å	^	`	æ	¢	å	~	blank
Spain	#	$	@	¡	Ñ	Ç	^	`	¿	ñ	ç	~	blank
Sweden	#	•	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü	blank
Italy	≥	$	§	°	ç	é	^	ù	à	ò	è	`	blank
Germany	#	$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß	blank
France	£	$	à	°	ç	§	^	`	é	ù	è	~	blank
United Kingdom	£	$	@	[	\	]	^	`	{	|	}	≡	blank
USA	#	$	@	[	\	]	^	`	{	|	}	~	blank
	blank = space, print = printable												

Tab. 10: Country settings for applications, which base on 7bit ASCII code.

❍ For complete tables of all fixfonts characters available with setting "IBM" refer to the User Manual, topic section "Internal Fonts". You also find there a comparison of the IBM and ANSI character sets.

Character filter

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Character >= 20Hex Filter function is activated. Characters smaller than 20H are filtered out of the data flow.

All character Filter function is deactivated. Characters smaller than 20H are treated as normal characters.

Light sens. type

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Light sensor type

The optional reflex photoelectric switch for labels with reflecting length markings, or the normal factory-fitted photoelectric switch for labels with transparent or register gaps (self-adhesive labels), must be defined according to the application.

Full Size Full Size photoelectric switch (Adjustment range is the material width).

Reflex Reflex photoelectric switch (for reflecting markings)

Punched Transparent photoelectric switch (for gaps)

Head-sensor dist.

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t [a]

a) Parameter appears only in production mode.

Printhead-sensor distance

Special function for setting non-standard punch sensors. Such sensors can be applied in special application devices ("Nistan"). The value x is the distance between thermal edge and punch sensor in millimeters.

x mm Setting range: 0 to 400 mm

Sens. punch-LS

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Sensitivity punch light sensor

Sets the sensitivity of the material photoelectric switch.

xxx mm Setting range: 8 to 100%; Unit interval: 1%
Default setting: 50%

Maximum sensitivity: 100%. for narrow gaps (perforations).

Minimum sensitivity: 1%. for clearly detectable gaps.

➠ Too high a level of sensitivity can lead to gaps being detected which do not even exist (on proofs, material thickness fluctuations, perforations etc.).

Ribbon autoecon.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Ribbon automatic economy mode

The ribbon feed can be interrupted during print periods with the ribbon automatic economy parameter. This saves ribbon, particularly with long labels with a minimum print area. The automatic function should only be activated with unprinted areas from approx. 10 mm in length.

A selection can be made between thermal transfer printing and thermal direct printing. It is necessary to select the type of printing in order to be able to switch over the ribbon end detection.

Thermal printing Thermal direct printing (Ribbon-end-LS switched off)

Activated (not with AP 4.4/5.4)

Thermal transfer printing with ribbon automatic economy mode on.

Deactivated Thermal transfer printing with ribbon automatic economy mode off.

Ribbon economy limit

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The ribbon economy limit determins the length of the printing free area on the label from that on the ribbon economy automatic should be activated.

x,xx mm Setting range: xx up to 100,0 mm; Unit interval: 0,1 mm (the initial value depends on the feed speed)
Default-value: 5.0 mm

Foil mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Thermo transfer Thermo transfer printing (Ribbon sensor activated)

Thermal printing Thermo direct printing (Ribbon sensor deactivated)

Turn-on mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Operating mode of the printer after it has been switched on.

Online Printer is in on-line mode immediately after being switched on.

Offline Printer is in off-line mode immediately after being switched on.

Interface delay

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

After switching from online to offline mode, the printer interface is deactivated. This parameter offers a setable delay time before deactivating the interface.

xxxx ms Setting range: 0-1000; Unit interval: 100; Default setting: 0

Error reprint

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

If an error occurs while a label is printed, the last printed label will normally be reprinted. In case of label layouts containing variable data like e.g. count fields, switching off the reprint function possibly makes sense.

Enabled Reprint in error cases (default setting)

Disabled No reprint in error cases.

Single job mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

In single job mode (also stop mode) the printer stops after every job and waits until the operator restarts the print process.

Deactivated Single job mode is switched off (default setting).

Activated Single job mode is switched on. The printer always displays "Start next job", before starting a new print job. This requests the user to acknowledge by pressing the Online button.

Head resistance

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

For optimum print quality, the individual print head resistance of the thermo head employed in the device must be set once with this parameter.

When replacing the print head, the resistance value of the print head (to be read off from the print head) must be entered again.

➠CAUTION! - Entering a false value can damage the print head!

➜ Read off the correct value from the print head and set it accordingly.

➠ The value set here remains when the factory settings are carried out.

xxxx Ohm Setting range: 1000 to 1500 Ohm; Unit interval: 1 Ohm

Setting the print head resistance:

Setting:

1. From the print head, read off the resistance value to be set and make a note of it (1000 to 1500).
2. In off-line mode press the Prog. button, display: *PRINT INFO*.

3. Press the Cut button until *SYSTEM PARAMETER* is displayed.
4. Press the Online button, display:

   SYSTEM PARAMETER
   Foil end warning

5. Press the Cut button until

   SYSTEM PARAMETER
   Head resistance

   is displayed.
6. Press the Online button, set value is displayed.
7. Set the previously noted resistance value of the print head using the Feed and Cut buttons.
8. Press the Online button to confirm the set value.
9. Press the Prog. button to return to the display *OFFLINE 0 JOBS*.

Temp. reduction

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Reduction in the print head temperature

The parameter *SYSTEM PARAMETER* > *Temperature reduct.* allows the power supply to be reduced in the event of an increase in the print head temperature, thereby ensuring an evenly good print image.

xx% Setting range: 0 to 50%; Unit interval: 10%

The following setting alternatives are available:

- 0%: No temperature reduction (default).
- xx%: Up to xx% temperature reduction with a hot print head.

➠ The temperature reduction function can only be used with the Stepper I/O board 97315-07-0.

Voltage offset

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The voltage offset increases the head voltage and therefore the head temperature which e.g. was set by Easy Plug command (HV).

xx% Setting range: 0 to 20%; Unit interval: 1%
Default setting: 0%

Expand Logo

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with 8-Dot emulation.

Off Logos are printed in normal size.

On Logos are printed enlarged.

Miss. label tol.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Missing label tolerance

The maximum search path for gaps which cannot be found can be varied. In cases of difficult gap detection (i. e. minimum variation in the light transparency, gap to label), shortening the search path is to be recommended. Label loss resulting from gaps not being detected can be reduced in this way. Printing does not take place during the search process.

xx Setting range: 0 to 10; Unit interval: 1

- Example 0 (Zero label length): A gap must be found after a printed label otherwise an error message is given. This setting is for detecting every missing label.
- Example 5 (Five label lengths): A gap must be found after a maximum of 5 label lengths otherwise an error message is given.

Mat.end detect.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Material end detection.

The material end detection can be deactivated for processing labels with gaps longer than 15 mm, or if using material with a high fluctuation in light transparency (ST05 = material end is displayed even though material is present).

➠ CAUTION! - Reel material should not be processed when the material end detection is deactivated! With this setting, printing continues on the print roller after the end of the material, leading to shorter cleaning intervals or damage.

Reflex Material end detection by means of a reflex sensor.

Transparent Material end detection by means of a transmission sensor.

Disabled No material end detection.

Periph. device

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

After installation, options must be selected under "Peripheral device" in order to be assured of the corresponding sensor queries and printer reactions.

➠ CAUTION! - Selecting an incorrect option can lead to malfunctions or damage!

None No peripheral device is installed.

Cutter Sets the printer firmware to the cutter option. Selection permits access to the cut parameters.

Rewinder Sets the printer firmware to the rewinder option. Selection permits access to the rewinder setting parameters.

Tear-off edge Sets the printer firmware to the tear-off edge option. The punch is fed forward to the tear-off edge.

Dispenser Setting for 64-xx / AP 5.4 dispenser version.

Intern Rewinder AP 5.4 only: Setting for printer operation in „internal rewinder“ mode, that is operation with a deflector and without dispensing edge.

Tear-off + sensor AP 5.4 only: Setting for using the dispensing edge as tear-off edge. The punch is fed forward to the dispensing edge.

TCS AP 7.t only: Textile Cutter-Stacker

Singlestartquant

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Single start quantity

xx Setting range: 1 to 10; Unit interval: 1

External signal

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The parameter determines, if and how an incoming signal at the - optional - single start connector will be interpreted.

Disabled Signal interpretation disabled.

Singlestart The signal triggers the printing of a single label. This setting may be used e.g. for printing single labels by means of a foot switch.

Stacker full The signal triggers the display of a status report and stops the printer. This setting may be used when using a stacker (= stacker full signal).

Dispensing mode

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device“ = „Dispenser“.

➠ Only effective in real 1:1 mode!

Real 1:1 mode normally bears the disadvantage of a slightly lower impression accuracy, caused by the additional slippage at the rollers while feeding back.

The parameter "Dispensing mode" enables optimal positioned printouts even in real 1:1 mode. This accuracy is reached by feeding back the next label to be printed behind the gap sensor instead of "only" as far as under the print head. The additional distance of backwards feeding reduces the output rate slightly.

exact Printout with a maximum impression accuracy

fast Printout with a lower impression accuracy but higher output rate.

Application mode

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device“ = „Dispenser“.

Save Mode A start signal is required to draw the next label back under the print head. This setting bears advantages for label material with a strong adhesive, which would not stay attached to the applicator when the backing paper is fed backwards.

Immediate Mode After the just printed label has reached the dispense position, the following label is drawn back under the print head. The dispensed label stays attached to the applicator (default setting).

Wait position

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only if „SYSTEM PARAMETER > Application mode“ = „Save Mode“.

Setting of the distance between dispensing edge and wait position.

The applicator moves down the designated distance with the sucked-on label to its wait position. The wait position should be in a possibly short distance to the product surface.

xxx mm Setting range: 0 to 180 mm; Unit interval: 1 mm; Default setting: 0 mm

➠ Use the wait position to reach a short delay between product detection and label application.

Start mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Ways of interpreting the start signal:

Level Labels of a certain print job are being printed as long as the signal level is "high". When using a foot switch, labels are printed as long as somebody keeps his/her foot on the foot switch.

Edge The rising / falling signal edge triggers the printing of exactly one label (Default setting).

❍ See parameter Signal edge on page 67.

Start source

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Choose a signal source for the start signal:

Foot switch (Default setting)

Light barrier Photoelectric switch at the dispensing edge which detects the taking off of the dispensed label.

➠ The setting "Light barrier" is unsuitable for product sensors! Product sensors must be connected to an USI!

USI (not with AP 4.4/AP 5.4)
USI interface (only with installed USI board)

Dispensing edge

64-xx [a)]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device“ = „Dispenser“.

Adapts the feeding to the length of the dispensing edge.

long Long dispensing edge

short Short dispensing edge (Default setting)

Transport mode

64-xx [a)]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device“ = „Dispenser“.

In normal operation mode, the rewinder motor (Dispenser Motor) feeds the material, while the feed motor runs idle. When applying very slim material, it can be advisable to add the power of the feed motor in order to prevent material rupture (Dual Motors). To run the printer like a usual non-dispenser, the rewinder motor can be switched off (Printer Motor).

➠ Absolutely use the "Dual Motors" mode, if the following three conditions are the case:

– Printer is used as dispenser
– Ribbon autoeconomy mode switched on
– Print speed higher than 203 mm/s (8 inch/s)

Printer Motor Rewinder motor switched off. The printer behaves like a model without dispenser option.

Dual Motors Both motors (feed and rewinder) are activated.

Dispenser Motor The feed motor is switched off. The rewinder motor feeds the material (Default setting).

Signal edge

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 [a)]	AP 7.t [a)]

a) This parameter does not appear, if an I/O board is connected.

This parameter determins either the falling or the rising edge of an incoming signal as trigger.

Falling edge The falling signal edge triggers a certain printer reaction.

Rising edge The rising signal edge triggers a certain printer reaction.

Print contrast

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

xxx% Setting range: 1 to 110%; Unit interval: 1; Default setting: 60.

Ram disk size

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

A part of the printer memory can be identified as a RAM disk. The RAM disk can be used in the same way as the Compact Flash Card, e.g. for storage of logos or fonts.
With the parameter Ram disk size, the customer can set the size of the RAM disk to his needs. Be aware, that RAM disk memory is not available for print picture buildup. Use of much RAM disk memory reduces the picture buildup rate of the printer.

➠ Switching the printer off extinguishes the memory content! Fonts, logos etc., which were loaded on the RAM disk, must be loaded again after switching the printer off.

xxxx KBytes Setting range: 128 to 2048 KBytes; Unit interval: 128 KBytes; Default setting: 512 KBytes

Font downl. area

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

If speedo-fonts are supposed to be used, they have first to be copied to a reserved RAM disk area. Use parameter „Font downl. area“ to reserve the RAM disk area in the required size.

The size of the required RAM disk area depends on the size of the font files to be loaded.

➠ Mind to reserve a big enough RAM disk area!

There are two ways to copy the font files to the RAM disk:

- Copy from CompactFlash card:
  The font files must be placed in a folder named \fonts on the CompactFlash card during system startup. The files must be named fontxxx.spd (xxx = No. from 200 up to 999).

❍ For details refer to the manual „Cards“, subject section „Using Cards“, paragraph „CompactFlash Card“.

- Copy via Easy Plug command #DF (download file).

❍ More information: manual „Easy Plug“, subject section „Description of Commands“.

xxx KBytes Setting range: 128 to 2048 KBytes; Unit interval: 128 KBytes; Default setting: 256 KBytes

➠ Switching the printer off extinguishes the memory content! Fonts, logos etc., which were loaded on the RAM disk, must be loaded again after switching the printer off.

Free store size

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

This parameter sets the size of the memory area which is used to load and transform graphics files. Especially huge graphics which are ought to be converted to black and whit using "error diffusion", need a lot of memory.

➠ The more memory is allocated using this parameter, the less memory is available for print jobs.

xxx KBytes Setting range: 512 to 2048 KBytes; Unit interval: 128 KBytes; Default setting: 512 KBytes.

➜ A good advice is to increase the set value step by step, starting with the minimum of 512 KBytes, until the status message 8856 ("Free store size", what means the memory area is low) does no longer appear during data conversion.

Use with the Easy Plug command #YG, see manual Easy Plug.

❍ See parameter Memory status on page 25.

Print info mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Structure option for info printouts.

Par. values right The parameter values are printed on the right side of the parameter names:

Parameter name: Value

Par. values left The parameter values are printed on the left side of the parameter names:

Value: Parameter name

Reprint function

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Off (Default setting) Reprinting is not possible.

On The last printed label can be reprinted by pressing the feed button in online mode, if the printer is not printing at that moment.

Language

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Setting the display language.

Italian

Danish

Dutch

Spanish

French

English

German

Signal / buzzer

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

On Tone signal activated

Off Tone signal deactivated

Access authoriz.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Access authorization

Limits the access either to all printer functions (Power-up code) or only to the parameter menu (user or supervisor mode). Changed settings become active after the next switch-on.

Key codes

Regardless when the code is prompted, can three different key codes be typed in (see Tab. 11:).

Enter code

Entering a key code: Type the corresponding buttons of the control panel in succession. A valid key code switches the printer into the appropriate mode.

Mode	Key code	Impact
User	Cut, Cut, Feed, Online	Access only to certain parameters
Supervisor	2x Online, Feed, Cut, 2x Online	Access to all parameters except production parameters
Production	Cut, Online, Feed, Cut, 3x Online	Access to all parameters

Tab. 11: Permissible key codes.

➠ CAUTION! - The key code "production" allows the access to parameters, which are used during production to adjust the printer. Input errors to those parameters can make the printer inoperable or can damage it. For this reason, the production code may only be applied by *trained service technicians*!

➠ Especially service technicians may use the direct access into production mode, even if the parameter *Access authoriz.* is set to *Deactivated*, what means that no password will be queried at all. To do so, proceed as follows:

1. Switch printer off.
2. Switch printer on, simultaneously press the Feed+Prog-key until the printer type is displayed.

   After the printer was powered up, the key code will be queried:
3. Enter the production code.

Accessible parameters in User Mode

PRINT INFO	SPECIAL FUNCTION
Printer status	Delete job
Memory status	Delete spooler
Font status	
Service status	
Dottest endless	
Dottest punched	
Reference label	

Tab. 12: Accessible parameters in User Mode.

Possible Settings

Deactivated Password interrogation switched off (default)

Power-up code Activates the password interrogation directly after switching the printer on.

After the input of a valid key code, the printer switches into offline mode. Depending on the entered key code, the printer starts in user, supervisor or production mode.

User

Activates the password interrogation when accessing the parameter menu.

- The printer is in the offline mode after switch-on
- Change to the online mode is possible without restriction
- To reach the parameters-menu, enter a valid key code
- Valid key codes: all

Supervisor

As setting „User“, with different valid key codes:

- Valid key codes: Supervisor, Production

Realtime clock

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Appears only if a realtime clock is installed.

❍ For installation instructions regarding the realtime clock for 64-xx / DPM / ALX 92x, read the Service Manual, topic section "Service Electronics", paragraph "Options".

The realtime clock provides actual date and time. Those data can be processes using the Easy-Plug #YC, #YS or #DM commands.

Realtime Clock dd.mm.yyyy hh:mm	dd=Day, mm=Month, yyyy=Year, hh=Hour, mm=Minute (Example: 19.02.2001 14:41)

Setting date / time:

1. Press the CUT(Apply) button repeatedly, until the digit blinks which you want to alter.
2. Set the intended value to the digit by pressing the FEED button (repeatedly).
3. Repeat steps 1 and 2 until date / time is set correctly.
4. Press the ONLINE button.

➠ Press the ESC button to leave the parameter without altering the setting.

APPLICATOR PARA

➠ This menu only appears in printers of the types 64-xx, DPM and ALX 92x, and only, if the optional Applicator Interface (AI) is connected.

Applicator type

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with Applicator Interface.

Selection, which applicator type will be applied:

LTP-LTPV
PEP
PEP Blow on
PEP II Sensor
ASA
Reverse PEP

❍ Refer to Technical Manual LTP/LTPV.

Application mode

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with Applicator Interface.

Defines, if the application process starts with applying („After start signal“) or with printing the label. Precondition: A printjob is loaded and the printer is in online mode.

After print The start signal triggers the immediate printing, dispensing and applying of a label.

After start sig. The start signal triggers the application of an already printed and dispensed label. After applying the label, the next one is immediately printed and dispensed.

❍ A flow chart illustrating the application process can be found in the Technical Manual LTP/LTPV, topic section "Specifications", paragraph "Function diagram LTSI / LTP / LTPV".

Start error stop

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with Applicator Interface.

Determines the reaction of the machine on a product start error. A product start error occurs in the following cases:

- If a further start signal arrives, before the current label is completely printed.
- If a reprint is requested, before the first label after powering on is printed.
- If a start signal arrives and no printjob is loaded.

On Start errors are worked up (the machine stops!) (default setting)

Off Start errors are being ignored.

APSF sensor res.

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with Applicator Interface.

APSF sensor resolution.

This parameter is not yet supported.

Startdelay

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with Applicator Interface.

Use this parameter to set the distance between product sensor (photoelectric switch) and dispensing edge. The recommended delay time is calculated of the "Start delay" distance and the conveyor speed (= print speed in cases of direct application).

xxx.x mm Setting range: 0.0 to 999.9 mm; Unit interval: 0.1 mm; Default setting: 0 mm

Dwell time

64-xx [a] [b]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is only displayed if „APPLICATOR PARA > Applicator type“ = „PEP“ or „PEP Blow on“.

b) Only with Applicator Interface.

Defines the dwell time for the apply cylinder. The dwell time is the time during which the cylinder valve is turned on.

xxxxx ms Setting range: 1 to 99999 ms; Unit interval: 1 ms; Default setting: 1 ms

Blow on time

64-xx [a] [b]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is only displayed if „APPLICATOR PARA > Applicator type“ = „LTP-LTPV“ or „ASA“.

b) Only with Applicator Interface.

xxxxx ms Setting range: 0 to 99999 ms; Unit interval: 1 ms; Default setting: 1 ms

Restart delay

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with Applicator Interface.

Sets the delay time after the application, during which no start signals are accepted.

xxxxx ms Setting range: 0 to 99999 ms; Unit interval: 1 ms; Default setting: 0 ms

Position timeout

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with Applicator Interface.

Legt die Zeitdauer fest, nach der ein Positionsfehler des Applikators als Fehler angezeigt wird. Ein Positionsfehler liegt vor, wenn der Applikator eine oder beide Endlagen nicht innerhalb des eingestellten Zeitrahmens erreicht hat.

Sets the delay time, after which a position error of the applicator is displayed as an error. A position error occurs, if the applicator doesn´t reach any of its end positions within the required time frame.

xxxxx ms

Setting range: 500 to 99999 ms; Unit interval: 1 ms;
Default setting: 2000 ms

I/O BOARD

➠ This menu appears only in AP 5.4 and AP 7.t type printers, and only if the optional I/O Board is mounted.

Start delay

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

Use this parameter to set the distance between product sensor (photoelectric switch) and dispensing edge. The resulting delay time is calculated from the start delay (distance) and the print speed, so it leads to a delay time t = start delay (distance) / print speed.

xxx.x mm Setting range: 0.0 to 999.9 mm; Unit interval: 0.1 mm; Default setting: 0 mm

Start print mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

Selecting a print mode. Depending on the selected mode, the input signal START_PRINT will be interpreted differently by the I/O Board signal interface. The parameter is also used for the device connected to the foot switch jack.

- Make sure to select *SYSTEM PARAMETER > External Signal = Single Start*.

❍ See parameter External signal on page 64.

- Note: The parameter *Start Print Mode* replaces the parameter *Signal Edge* in the *SYSTEM PARAMETER* menu.
- Preconditions: Print job is available (DATA READY), printer is in “Online” mode, no error messages.

Pulse falling (Default setting) The printing of a label is triggered by a high-to-low change of the signal at the input START PRINT. The printing occurs only after the set delay time.

Pulse rising The printing of a label is triggered by a low-high change of the signal at the input START PRINT. The printing occurs only after the set delay time.

Pulse fall/ris The printing of a label is triggered by a low-high-change as well as by a high-low change of the signal at the input START PRINT. The printing occurs only after the set delay time.

Level low active Labels will be printed as long as the signal at input START PRINT is held low.

Level high active Labels will be printed as long as the signal at input START PRINT is held high.

Reprint Signal

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

Disabled The input signal is disabled

Enabled The last printed label will be reprinted on the falling edge of the REPRINT signal.

Preconditions:

- The label to be reprinted, should be printed and dispensed.
- Printer is in online mode.

If a REPRINT is triggered while the printer is in “I/O-Board Pause” mode, the reprint will proceed as soon as the printer is switched back in online mode. Precondition: in level mode START PRINT must be inactive.

Feed input

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

Concerns the input signal FEED at the signal interface.

Enabled (Default setting) Feeding of one label on the falling signal edge. The display shows „I/O board feed“ during feeding. Requirements are:

- Offline mode, „stopped mode“ or „pause mode“
- Online mode and no print job loaded.

Disabled Signals at the FEED input are ignored.

Pause input

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

Concerns the input signal PAUSE at the signal interface.

Disabled Signals at the PAUSE input are ignored.

Pause A high-to-low transition switches the printer into the “I/O-Board Pause” mode. The next high-low-transition switches the printer back into the online mode. If parameter *Start print mode* is set to *Level high active* or *Level low active*, any activating of the PAUSE signal stops the printing after the current label.

Features:

- Printer display shows „I/O-Board pause“
- ERROR is active (only if *I/O Board > Error output = Printer err+Offl*)
- If a print job is available: DATA READY becomes inactive (if *I/O Board > Status output = Print job ready*)
- START PRINT signals are suppressed
- REPRINT requests are processed after switching into online mode.

A "low" signal for 20 ms switches the printer into the pause mode. The pause mode is the same as the "Online stopped" mode and can be switched to the “Online” mode by pressing the feed button.

Error output

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

This parameter defines different events, which activate the output signal ERROR.

Printer error

ERROR will be activated in all of the following cases:

- Material end
- Ribbon end (only if *SYSTEM PARAMETER* > *Foil mode* = Thermo transfer)
- No punch recognized (only if *PRINT PARAMETERS* > *Material type* = punched)
- Printhead pressure lever was opened during the printing of a label.
- Start print error
- Other errors, which keep the printer from printing

➠ During the initialization (powering up) of the printer, the ERROR-signal is instable!

Printererr + Offl

In addition to the above mentioned cases avtivate the following events the ERROR-signal:

- The printer is in offline mode
- The printhead pressure lever is open
- „I/O board pause“ mode
- Stopped mode (the printing was stopped)

Error Polarity

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

Switches the polarity of the ERROR signal.

Level high activ

The output is high when it is active, otherwise low.

Level low active

The output is low when it is active, otherwise high. (Default)

Status output

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

This parameter defines different events, which activate the output signal MACHINE STATUS.

Low ribbon warn

The signal is activated, if the ribbon roll diameter is less than the limit.

❍ See parameter Foil end warning on page 54.

Print job ready

The signal is activated, if the printer has finished image processing and is ready to start printing.

The signal is *not activated*, if:

- the print job is done,
- the print job was stopped,
- the printer was switched to offline mode,
- the printer is in pause mode.

Status polarity

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

Switches the polarity of the MACHINE STATUS signal.

Level high active The output is high when it is active, otherwise low.

Level low active The output is low when it is active, otherwise high. (Default)

End print mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Only with an I/O board mounted.

Concerns the output signal PRINT_END at the I/O board signal interface. Determines the signal response after printing of a label.

Mode0 inactve No print end signal.

Mode1 high level Low, if the print module is just printing a label, otherwise high.
The output is also deactivated (= low) as long as labels are fed with “Feed Button” or “Feed Signal”.

Mode2 low level High, if the print module is just printing a label, otherwise low.
The output is also deactivated (= high) as long as labels are fed with “Feed Button” or “Feed Signal”.

Mode3 low pulse (Default setting) Low for 20 ms after printing and dispensing a label.
The output is also activated (= low) after a label is fed with “Feed Button” or “Feed Signal”.

Mode4 high pulse High for 20 ms after printing and dispensing a label.
The output is also activated (= high) after a label is fed with “Feed Button” or “Feed Signal”.

OLV PARAMETERS

➠ This menu only appears, if an online verifier (OLV) is connected to the printer. For this, the parameter *INTERF. PARAM. > COM2 PORT > Function Option* must be set to *Barcode OLV*.

Verify mode

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

All bar codes All bar codes are being checked according to the limits set at the printer.

➠ Easy-Plug print jobs don´t have to be modified when using this setting.

Easyplug select. Only those bar codes are being verified, which have the „V“ set in the command option.

❍ For details refer to the Easy-Plug manual, command #YB.

Ref Decode

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

No Test The bar code doesn´t have to be decodable.

Pass The bar code must be decodable.

Decodability

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Modulation

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Defects

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

➠ Condition: Value <= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Edge contrast

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Rmin/Rmax

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

Minimaler/maximaler Reflexionsgrad.

➠ Condition: Value <= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Symbol contrast

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

PCS

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

Print Contrast Signal.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

R (white)

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

Reflectance.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

R (black)

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

Reflectance.

➠ Condition: Value <= Limit.

xxx Setting range: -1 to 100; Unit interval: 1; -1 = No checking.

Ratio

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 99; Unit interval: 1; -1 = No checking.

ANSI symbol grade

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

For most applications, it is sufficient to set only this parameter. The previously listed parameters are checked automatically according to ANSI grade.

➠ Condition: Value >= Limit.

xxx Setting range: -1 to 40; Unit interval: 1; -1 = No checking.

Value	ANSI Grade
0-5	F
5-15	D
15-25	C
25-35	B
35-40	A

Tab. 13: ANSI symbol grades

Dist. head-beam

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

Setting of the distance between reading position of the laser beam and print head.

xx mm Setting range: 6 to 18; Unit interval: 1

Cancel. printing

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) Parameter is not supported for printers with dispenser.

Cancellation printing

Disabled No cancellation printing.

Enabled If no validation data for the printed bar code was sent, or if the bar code exceeds the set limits, the faulty printed label is cancelled. Afterwards, the same label is reprinted. The amount of reprints can be set with the parameter „Reprint quantity“. If the error still occurs after the so defined quantity of labels was reprinted, the printing stops and an adequate error message appears.

Reprint quantity

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Is ony displayed, if OLV PARAMETER > Cancel. printing = Enabled.

Defines the maximum amount of reprint attempts after a bar code read error.

xxx Setting range: 0 to 10, Unit interval: 1; Default setting: 0

Verify mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Fast Standard verification mode.

Slow Each print job is proceeded as if it contained counting fields. Additionally, each labels is moved forward underneath the laser beam and backwards again. This procedure slows down the label throughput, but on the other hand it ensures that the correct counting field content is printed after an error occured.

DISPENSER PARA

Dispense Mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a)	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

❍ See parameter Dispense Mode on page 37.

Dispenseposition

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a)	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

❍ See parameter Dispensposition on page 39.

Display mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a)	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

❍ See parameter Display mode on page 54.

Dispense counter

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a)	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

❍ See parameter Dispense counter on page 55.

Application mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a)	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

❍ See parameter Application mode on page 65.

Start mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a)	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

Determines the interpretation of a start signal at the foot switch jack.

Edge (Default setting) The falling (low active) signal edge triggers the printing of exactly one label.

Level low active Labels of a certain print job are being printed as long as the signal level is low. When using a foot switch, labels are printed as long as somebody keeps the foot switch pressed.

Start source

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 [a)]	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

❍ See parameter Start source on page 66.

Current mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 [a) b)]	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

The setting of this parameter influences the impact of the paramters *Min rew. current* and *Max rew. current*.

Table values Display of the automatically calculated motor current chart PWM values (in %). On the base of this setting, the printer calculates the motor current values for *Min rew. current* and *Max rew. current* out of print speed and material width. The calculated values appear as default 100%.

Absolute values With this setting, the printer doesn´t calculate and doesn´t adapt to material width and print speed. The set values for *Min rew. current* and *Max rew. current* are given to the output stage without a modification. The valueas appear as absolute values.

➠ The setting "Absolute values" should only be applied by qualified personnell!

Min. rew. current

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 [a) b)]	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

Minimal rewinder current

This parameter influences the rewinder current with 25 mm rewinder diameter (min. rewinder diameter).

Problem	Solution
The label web runs too loose around the dispensing edge during printer operation. The label roll is wound up too loose.	Increase the setting
The label web runs too tight around the dispensing edge during printer operation. The label roll is wound up too tight.	Decrease the setting

Tab. 14: Cases, in which the setting of the minimal rewinder current has to be corrected.

XXX% Setting range: 50-200%; Default setting: 100%
Precondition for the setting in percent:
Parameter *DISPENSER PARA > Current mode* = Table values (see above).

XXX Setting range: 0-750; Default setting: 100;
Precondition for the setting in absolute values:
Parameter *DISPENSER PARA* > *Current mode* = Absolute values (see above).

Max. rew. current

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

Maximum rewinder current

This parameter influences the rewinder current with 120 mm rewinder diameter (max. rewinder diameter).

XXX% Setting range: 50-200%; Default setting: 100%
Precondition for the setting in percent:
Parameter *DISPENSER PARA* > *Current mode* = Table values (see above).

XXX Setting range: 0-750; Default setting: 250;
Precondition for the setting in absolute values:
Parameter *DISPENSER PARA* > *Current mode* = Absolute values (see above).

The two parameter values *Min. rew. current* and *Max. rew. current* are used by the motor output stage to calculate all other current values for diameters lying in between.

Problem	Solution
The label web runs too loose around the dispensing edge during printer operation. The label roll is wound up too loose.	Increase the setting
The label web runs too tight around the dispensing edge during printer operation. The label roll is wound up too tight.	Decrease the setting

Tab. 15: Cases, in which the setting of the minimal rewinder current has to be corrected.

Start rew. current

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

Start rewinder current

Setting of the start-up current superelevation in % or the normal motor current.

XXX% Setting range: 0-100%; Default setting: 0%

Start cur. len.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

Start current length

Duration of the start-up current superelevation. To be set is the feed length, during which the increased current is supposed to flow.

XX mm Setting range: 10-40 mm; Default setting: 30 mm

Pullback current

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

After a label was dispensed, the label web has to be pulled back under the printhead. To reach this, the rewinder is rotated slightly in the opposite direction. The braking torque of the rewinder against this rotation may not be too strong, otherwise this could decrease the impression accuracy. Because of the brake torque depending on the diameter of the wound up label web, it has to be corrected at the beginning (min. diameter) and at the end (max. diameter) of the winding-up process. This is done by the *Pullback current* (supports the backwards rotation in case of low diameter) and the *Break current* (amplifies the brake torque in case of high diameter). Additionally can be set: The diameter up to which the Pullback current is throttled down to zero (parameter *Back diameter*), and the diameter, from which on the brake current starts (parameter *Break diameter*).

The parameter *Pullback current* sets the support current for the rewinder at the minimum diameter of 25 mm. When the diameter of the rewound label web reaches the set value (Back diameter), the support current will be throttled down to a mimimum.

Back diameter

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

Pullback current diameter

❍ See parameter Pullback current on page 86.

➠ If the label web is *loose*, while it is fed back under the printhead, *decrease* this value in small steps. If the material is *tightened* too much, *increase* the value in small steps.

XX mm Setting range: 0-120 mm; Default setting: 50 mm

Break current

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 [a) b)]	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

Sets the break current

❍ See parameter Pullback current on page 86.

XXX Setting range: 0-100; Default setting: 0

Break diameter

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 [a) b)]	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Dispenser“.

Sets the break diameter.

❍ See parameter Pullback current on page 86.

XXX Setting range: 0-120; Default setting: 120

REWINDER PARA

Rewind direction

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a)	AP 7.t

a) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

(Internal) Rewinder rotation direction

Printing inside The label face shows *inwards*, when the label stock is wound up.

Printing outside The label face shows *outwards*, when the label stock is wound up.

Current mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

❍ See parameter Current mode on page 84.

Min. rew. current

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

❍ See parameter Min. rew. current on page 84.

Max rew. current

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

❍ See parameter Max. rew. current on page 85.

Start rew. curr.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

❍ See parameter Start rew. current on page 85.

Start cur. len.

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

❍ See parameter Start cur. len. on page 86.

Pullback current

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

❍ See parameter Pullback current on page 86.

Back diameter

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

❍ See parameter Back diameter on page 86.

Break current

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

❍ See parameter Break current on page 87.

Break diameter

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4 a) b)	AP 7.t

a) Only in production mode.
b) Only if „SYSTEM PARAMETER > Periph. device = Intern Rewinder“.

❍ See parameter Break diameter on page 87.

DP INTERFACE

➠ The parameters described in this section only appear in the parameter menu after a USI board is mounted.

❍ For information on signals and pin assignment of the USI, refer to the Service Manual, topic section "Interfaces", paragraph "Universal Signal Interface".

Interface type

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Sets the machine to the used application procedure.

USI interface Setting for direct dispensing.

USI applicator Setting for operation of an applicator with additional PLC.

Start delay

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Use this parameter to set the distance between product sensor (photoelectric switch) and dispensing edge. The recommended delay time is calculated of the "Start delay" distance and the conveyor speed (= print speed in cases of direct application).

xxx.x mm Setting range: 0.0 to 999.9 mm; Unit interval: 0.1 mm;
Default setting: 0 mm

➠ The start delay setting works only with one of the following settings of the parameter "Start Print Mode":

Parameter	Setting
Start print mode	Pulse falling
	Pulse rising
	Pulse fall/ris

Tab. 16: Precondition for the use of "Start delay": One of those parameter settings must be choosen.

Start print mode

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Selecting a print mode. Depending on the selected mode, the input signal START_PRINT will be interpreted differently by the USI interface.

Pulse fall/ris The printing of a label is triggered by a low-high-change as well as by a high-low-change of the signal at the input START PRINT\. The printing occurs only after the set delay time.

Level high activ Labels are being printed as long as the signal at input START PRINT is held high.

Pulse rising The printing of a label is triggered by a low-high-change of the signal at the input START PRINT. The printing occurs only after the set delay time.

Level low active Labels are being printed as long as the signal at input START PRINT is held low.

Pulse falling (Default setting) The printing of a label is triggered by a high-low-change of the signal at the input START PRINT. The printing occurs only after the set delay time.

End print mode

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Concerns the output signal PRINT_END at the USI interface. Determins the signal response after printing of a label.

Mode 0 No print end signals.

Mode 1 Low, if the print module is just feeding a label, otherwise high.

Mode 2 High, if the print module is just feeding a label, otherwise low.

Mode 3 (Default setting) Low for 20 ms after printing and dispensing a label.

Mode 4 High for 20 ms after printing and dispensing a label.

Reprint signal

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Determins the reaction on an incoming signal at pin REPRINT\ at the USI.

Disabled (Default setting) Incoming signal is ignored.

Enabled On a high-low toggle of the signal: The last printout is repeated.

Ribbon signal

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Concerns the output signal WARNING at the USI, which signalizes the close shortness of ribbon or material.

Enabled (Default setting) High, if the ribbon stack is less than the threshold value.

❍ The threshold setting is done with the parameter *SYSTEM PARAMETER > Foil end warning.*

Disabled Ribbon signal deactivated.

Material signal

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Concerns the output signal WARNING at the USI, which indicates the close shortness of ribbon or material.

Enabled High, if the diameter of the material roll falls below a certain value. The limit diameter is set by positioning the outer diameter (OD) sensor.

➠ Requirement: "OD sensor material" is installed.

Disabled No material end warning.

Feed input

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Concerns the output signal FEED at the USI.

Standard (Default setting) Feed of blank labels as long as signal is "low".
Precondition: Off-line mode or printing stopped in on-line mode.

JP5 A signal different from the standard FEED can be used. Precondition: an appropriate firmware change (NISTAN).

Pause input

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Concerns the output signal PAUSE\ of the USI.

Standard (Default setting) A "low" signal for 20 ms switches the DPM to the pause status. The pause status equals the status "on-line stopped" and can be closed by pressing the feed button.

JP6 A signal different from the standard PAUSE\ can be used. Precondition: an appropriate firmware change (NISTAN).

Start error stop

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Determines the reaction of the machine on a product start error. A product start error occurs in the following cases:

- If a further start signal arrives, before the current label is completely printed.
- If a reprint is requested, before the first label after powering on is printed.
- If a start signal arrives and no printjob is loaded.

If a product start error occurs, the machine stops and displays the appropriate status report. At the same time, the following output signals are activated (set low):

- ERROR
- MACHINE STATUS

On Start errors are worked up (the machine stops!) (default setting)

Off Start errors are being ignored.

Internal inputs

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.

Defines, if the internal inputs (CN300) on the USI board will be used or not.

❍ To find the location of the inputs, refer to the service manual, topic section "Circuit/Component Diagrams", chapter "USI board".

Enabled The internal inputs will be enabled.

Disabled The internal inputs will be disabled.

Applicate mode

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Only with USI board.
Parameter only appears if „DP INTERFACE > Interface type“ = „USI Applicator“

Defines, if the start signal at the USI (or pressing of the cut-/apply-button) triggers the complete Printing-Dispensing-Applying process, or solely the Applying.

After print The start signal triggers the immediate printing, dispensing and applying of a label. Precondition: A printjob is loaded and the printer is in online mode.

After start sig. The start signal triggers the application of an already printed and dispensed label. After applying the label, the next one is immediately printed and dispensed. Precondition: A printjob is loaded and the printer is in online mode.

❍ For detailed information about the applicate mode refer to the Technical Manual LTSI, topic section "Specifications", paragraph "Function diagram LTSI / LTP / LTPV".

TEXTILE PARAMETE

➠ This menu appears in AP 7.t printers only.

Changelabel mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Defines, when a change label is printed.

Easyplug select. Wechseletikett wird nur nach Easy-Plug-Kommando gedruckt.

Always at jobend Wechseletikett wird immer als letztes Etikett eines Druckauftrages gedruckt.

Changelab Print

Changelabel printing

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Defines, if a changelabel is printed or not.

Empty Changelabel *without* printing

With print Changelabel *with* printing

Changelab Length

Changelabel length

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Defines the changelabel length.

xx mm Setting range: 5-40; Unit interval: 1; Default setting: 10

Label eject mode

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

No No label ejection.

Yes, at jobend The last label of a print job is ejected.

SPECIAL FUNCTION

Printer type

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t [a]

a) Parameter is only visible in production mode.

Selection of the machine type. Must be set after the CPU board was replaced or after new firmware was loaded.

➠ CAUTION! - Selecting an inappropriate machine type can lead to malfunctions or damage!

Printer type selection for 64 bit printers (64-xx, DPM, ALX 92x):

Avery 64-0x 64-04/05/06/08 desktop printer.

DPM-0x LH Printing and dispensing module DPM, lefthand machine.

DPM-0x RH Printing and dispensing module DPM, righthand machine.

ALX 92x LH Printing and dispensing machine ALX 924/925/926, lefthand version.

ALX 92x RH Printing and dispensing machine ALX 924/925/926, righthand version.

Chess x Chess x desktop printer (same functionality as 64-0x).

Novexx PA-1x6 LH Printing and dispensing machine Novexx PA-146/156/166 LH, lefthand version (same functionality als ALX 92x LH).

Novexx PA-1x6 RH Printing and dispensing machine Novexx PA-146/156/166 RH, righthand version (same functionality als ALX 92x RH).

TTx

MICROJET 64-0x

MICROJET 64-0xX

MICROJET 64-0xXX

Printer type selection for 32 bit printers (AP 4.4, AP 5.4, AP 7.t):

AP5 AP 4.4, AP 5.4

AP7 AP 7.t

Printhead type

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Parameter is only visible in production mode.

➠ This parameter is only visible in production mode!

This parameter chooses the applied printhead type. In most cases equals the printhead width the maximum printwidth of the printer. This parameter is called automatically, after you have modified the printer type setting (*SPECIAL FUNCTION > Printer type*).

KCE 8Inch Printhead Kyocera KCE, 8" width, is applied in the following printer types: 64-08

KCE 6Inch Printhead Kyocera KCE, 6" width, is applied in the following printer types: 64-06

KCE 5Inch Printhead Kyocera KCE, 5" width, is applied in the following printer types: 64-05

KCE 4Inch Printhead Kyocera KCE, 4" width, is applied in the following printer types: 64-04

Disp. Head Offs.

64-xx [a]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) Only with 64-xx dispenser equipped with a 4“ printhead. Parameter is only visible in production mode.

Dispenser Head Offset

Yes Setting required for 64-04 dispenser with 4“ printhead: At the inner side end of the printhead exists a non-printable area of 13 mm width.

No Setting required for 64-05 dispenser with 4“ printhead: Full 4“ print width without restrictions. Precondition: The printhead is positioned at least 13 mm away from the innner side printhead end.

Command sequence

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter appears only in production mode.

~ „~“ is used as start sign for Easy-Plug command sequences.

(Default setting) „#“ is used as start sign for Easy-Plug command sequences.

Default Values

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter appears only in production mode.

User defined The presently selected settings of all parameters will be taken as default values. That is you will get those settings back even after a firmware update. All you have to do is to call the parameter "Factory settings".

Standard Calling the parameter "Factory settings" will set all parameters to the factory preset values.

Delete job

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Press the Online-key to cancel the active print job.

```
Delete Job
Clearing . . .
```

Delete spooler

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Press the Online-key to delete all print jobs contained in the spooler.

```
Delete Spooler
Clearing . . .
```

Factory settings

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

All parameters are preset ex works to values specific to each device type. These factory settings can be restored at any time.

All parameters are then overwritten by the factory settings.

The currently valid settings can be checked using *PRINT INFO > printer status*.

➠ CAUTION! - All data present in the spooler, including data belonging to an interrupted print job, is deleted!

Parameter to CF

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

All parameter settings are saved as text file on CF-card (default setting: FORMATS/SETUP.FOR).

With adjust para Settings of adjustment-parameters (e.g. sensor adjust) are also saved.

Without adj. par Settings of adjustment-parameters (e.g. sensor adjust) are *not* saved.

System version

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Displays the installed firmware version.

SERVICE FUNCTION

Service

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter only appears in production mode.

Increases the counter level of the "Service" counter on the "Service Status" printout by one.

❍ *See parameter* Service Status *on page 30.*

yes Increases the counter "Services" by one

no Doesn´t increase the counter

Head exchange

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter only appears in production mode.

Increases the counter „Head number“ on the info printout „Service Status“ by one.

❍ *See parameter* Service Status *on page 30.*

yes Increases the counter "Head number" by one

no Doesn´t increase the counter

Roller exchange

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter only appears in production mode.

Increases the counter „Roll number“ on the info printout „Service Status“ by one.

❍ *See parameter* Service Status *on page 30.*

yes Increases the counter "Roll number" by one

no Doesn´t increase the counter

Cutter exchange

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter only appears in production mode and only with a cutter mounted and activated.

Increases the counter „Cutter number“ on the info printout „Service Status“ by one.

❍ *See parameter* Service Status *on page 30.*

yes Increases the counter "Cutter number" by one

no Doesn´t increase the counter

Serv. data reset

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter only appears in production mode.

Sets all counters on the info printout „Service Status“ to zero.

❍ *See parameter Service Status on page 30.*

Head dot test

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Checks the print head for defective dots. The test ends with a status printout (see Fig. 14), listing the defective dots. The printout is also made without having found any defective dots.

➠ CAUTION! - Never switch off the printer while the dot check is running! If not observed, dots of the print head can be damaged!

During the test appears the display:

```
Head dot test
running ...
```

➠ The printout requires 100 mm wide and 200 mm long label material.

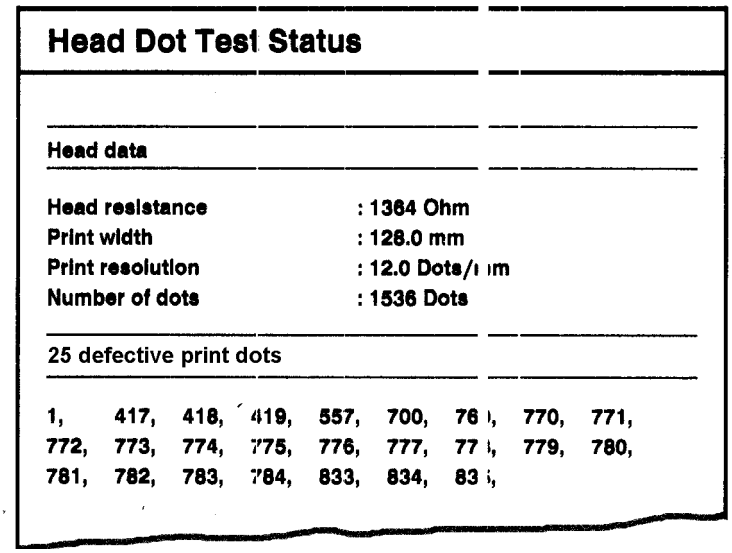

Head Dot Test Status
Head data
Head resistance : 1364 Ohm
Print width : 128.0 mm
Print resolution : 12.0 Dots/
Number of dots : 1536 Dots
25 defective print dots
1, 417, 418, 419, 557, 700, 76
770, 771,
772, 773, 774, 775, 776, 777, 77
779, 780,
781, 782, 783, 784, 833, 834, 83

Fig. 17: Status printout after successfully proceeded dot check. Upper section: technical data of the print head; Lower section: list of defective dots.

➠ The dot check can also be startet by pressing the Cut(Apply)+Feed buttons in Off-line mode. However, in this case is no status report printed.

Head step tune

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Parameter only appears in production mode.

Fine adjustment of the printhead movement during the ribbon autoeconomy motion.

x step(s) Setting range: -15 to +15; Unit interval: 1; Default setting: 0

Spec parameter 1

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter only for R&D.

Special parameter 1

Parameter for use with special applications.

➠ In Standard printers, keep this parameter set to 0! Other settings can lead to malfunction of the printer!

Spec parameter 2

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter only for R&D.

Special parameter 2

Parameter for use with special applications.

➠ In Standard printers, keep this parameter set to 0! Other settings can lead to malfunction of the printer!

EasyPlug monitor

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter only appears in production mode.

The parameter activates the logging of received Easy Plug data. The data is sent to COM2.

➠ To keep the influence of the monitoring function on the data rate as low as possible, the baud rate should be set to 115,000!

All data All received Easy Plug data, apart from immediate commands, are transmitted via COM2.

Interpreter data All received Easy Plug data, including immediate commands, are transmitted via COM2.

Disabled The monitor function is disabled.

Paper jam level

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4	AP 7.t

a) Parameter appears only in production mode.

➠ The paperjam detection works only with punched material!

➠ It can only be used from label length of 10 mm on!

➠ Generally rules: the longer a label is, the better works paper jam detection!

This parameter switches the paper jam detection on and sets a threshold value. With "Paper jam level" activated, the following status report is displayed, if label material wraps around the feed roller:

Status	5010
Paper jam	

x.x%

- x > 0: Paper jam detection is enabled. The higher the setting is, the more insensitive reacts the detection. Thumb rule for the setting:

  Label length x *Paper jam level* = 5 mm

- x = 0: Paper jam detection disabled (default setting).

The paperjam detection works as follows:
The printer firmware counts all the steps (=partial rotations), which the feed motor has to do in order to feed the label material from one punch to the next (see Fig. 15, stretch "s"). If label material is wrapped around the feed roller, the roller diameter increases. The therefore grown bigger roll diameter needs less steps to move the material forward a given stretch; and the more material is wound around the roller, the less steps are counted.
The printer control keeps a value history and compares each actual result to the number of steps counted about 20 labels before. If the deviation of counted steps compared to this label falls below the set threshold value (%-setting), the printer shows a status message (see above).

Example:
A setting of 10% means, that a status message is triggered, if the number of counted steps has decreased 10% compared to the value counted 20 labels earlier. If initially 200 steps have been counted for one label, a 10%-setting lets the printer tolerate 181 steps buts makes it show "error" at 180 steps.

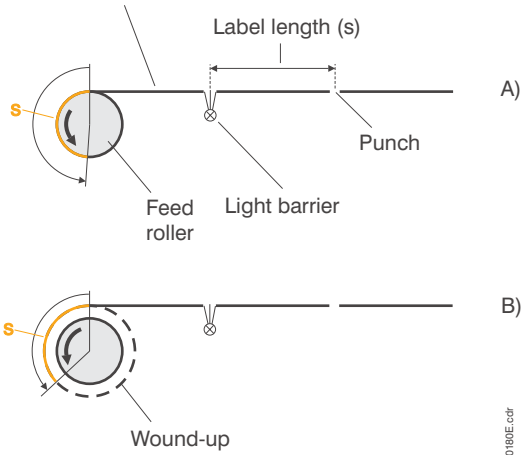


Fig. 18: Paperjam detection schematic. A) The stretch s is wound-up with a certain rotation angle of the roller; in B) the rotation angle is smaller, caused by the increased roll diameter.

Head adjust

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

➠ Parameter only for authorised, trained service personnel!

Sensor adjust

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Parameter only appears in production mode.

❍ For detailed instructions sensor adjustment, please refer to the service manual, topic section "Service Electronics", paragraph "Settings".

Sensor test

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

➠ The following description is *only valid for* 64-xx / ALX 92x / DPM!

❍ The description of the sensor test with AP 4.4/5.4/7.t can be found in the service manual, topic section „Service Electronics“, „Settings“.

The values displayed are for checking the sensors (sensor check) and can by adjusted by service personnel.

➠ Extraneous light must be avoided when checking the sensors. Therefore, keep the front cover and the housing cover closed during the sensor test.

After starting the sensor test, the following is displayed:

Sensor test 0.01 Option 255	*0.01 = Sensor ID, Option = Sensor designation, 255 = Sensor setting*

➜ Press the Feed button or Cut button to select the individual sensors (if present).

❍ For details refer to the service manual, subject section “Service Boards”, paragraph “Adjusting the sensors”.

Display	Sensor type	Displayed value	Description
Sensor Test 0.01 Option xxx	Dispenser light barrier	255	Light barrier covered by a dispensed label
(only 64-xx Disp.)		0	Light barrier free
Sensor Test 0.03 Press xxx	Press roller sensor	255	Shutter closed
(only DPM / ALX)		0	Shutter open
Sensor Test 0.04 Matend xxx	Material end sensor	0	without material (photoelectric switch clear)
		15	with material
Sensor Test 0.05 Punch xxx	Gap sensor	7 to 10	without material (typical value: 7)
		11 to 255	with material
Sensor Test 0.06 Reflex 255	Reflex sensor [a]	> 200	without material (ca. 253) or opposite of the reflex mark (definitely > 200)
		10 bis 20	with white material
Sensor Test 0.07 FullSz xxx	Full Size sensor	10	without material
		11 to 255	with material
Sensor Test 0.09 Cover xxx	Hood switch	0	hood closed
		255	hood opened
Sensor Test 0.12 H-Temp xxx	Print head temp. sens.	105 to 235	displayed value drops when the print head temperature rises (see Tab. 6:)
Sensor Test 2.01 Foil xxx	Ribbon sensor	0	sensor above the hole of the oscillator disc (photoelectric switch clear)
		254	sensor covered
Sensor Test 3.01 Head xxx	Print head sensor	0	print head in economy position (raised)
		254	print head in print position (lowered)
Sensor Test 4.01 Option xxx	Options sensor [b]	>10	sensor open
(not DPM/ALX)		<10	photoelectric switch clear
Display	Sensor type	Displayed value (xxx)	Description

Tab. 17: Sensor test conditions.

a) Precondition: Parameter "SYSTEM PARAMETERS/ Sens. punch-LS" = 30%

b) Cutter or Rewinder sensor

➠ If the following message shows up, a communication error occured between the CPU board and the motor driver board belonging to the sensor:

```
Sensor test
No sensor found
```

Value table for sensor 0.12 (printhead temp.)

Sensor value	235	230	225	220	215	210	205	200	195	190	185
Printhead temp.	12,9	17,8	22,1	26,0	29,5	32,7	35,8	38,7	41,4	44,0	46,6

Tab. 18: Sensor values of the print head temperature sensor (no. 0.12). The lower the displayed value is, the higher is the print head temperature.

Sensor value	180	175	170	165	160	155	150	145	140	135	130
Printhead temp.	49,1	51,5	53,9	56,3	58,6	60,9	63,2	65,5	67,8	70,2	72,5

Tab. 19: Tab. 18: continued

Sensor value	120	110	105
Printhead temp.	77,3	82,3	84,9

Tab. 20: Tab. 19: continued

HME registers

64-xx [a) b)]	DPM [a)]	ALX 92x [a)]	AP 4.4	AP 5.4	AP 7.t

a) Only appears in production mode.
b) 64-08 only.

➠ Parameter only for authorised, trained service personnel!

By means of this parameter, the register contents of the HME power supply can be changed.

Cutter test

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Makes it possible to test the cutter function without having to set the parameter *SYSTEM PARAMETER > Periph. device* to *cutter*.

Press Cut Key Triggers a cut, if a cutter is installed. Without a cutter nothing will happen.

Matend adjust

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

This printer type is equipped with a single light sensor which is designed to detect both, punches and material end. The sensor must be able to detect three different states:

- No material
- Only backing paper
- Backing paper + label face

This parameter Matend adjust can set the limit between being recognized as „only backing paper“ or as „material end“ (see Fig. 19).

➠ The setting should be 30!

All measured values below the set limit (that is <30), are recognized by the electronics as material end, values lying above are recognized as „only backing paper“.

➠ Before you even think about changing the setting of this parameter, make sure that the sensor is correctly adjusted!

❍ How to? - Read about in the Service Manual, topic section „Service Electronics“, „Sensor setting“.

Application example:
To be able to process transparent label stock, the parameter has to be set to zero.

yy Level : xx

Setting range: 0 to 255; Step width: 1; Default setting: 30

The value xx can be modified by pressing the Cut/Feed buttons.

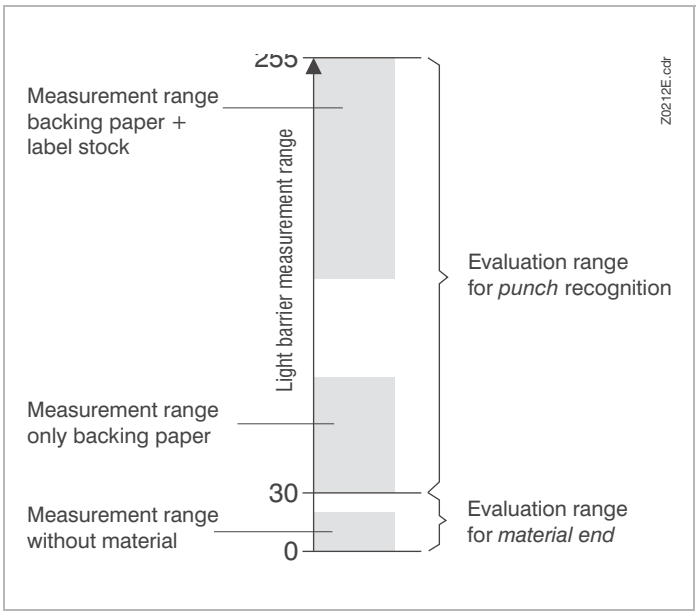


Fig. 19: The measurement ranges of the combined punch/material end sensor of the AP 4.4/ AP 5.4 - schematically illustrated.

Matend tolerance

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Material end tolerance

This is relevant for label stock with very long punches. To avoid those punches being recognized as material end by mistake, can here the distance be set, after which the gap over the light sensor is interpreted as material end.

➠ By choosing a very high material end tolerance, you loose the protection of the print roller against being printed on!

xxx mm Setting range: 20-300 mm; Default setting: 35 mm

Scanner test

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

The scanner test is required for the ex-works adjustment of an optional scanner.

Ein Switches the Scanner-Laser on.

Aus Switches the Scanner-Laser off.

Feed adjust

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Corrects the material feed length. A correction of the feeding may be necessary, if very long labels are printed, in order to adjust any feed inaccuracy caused by slipping of the feed roller.

x.x % Setting range: -10,0 to +10,0; Step width: 0,1%; Default setting: 0%

CompactFlashTest

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Test Compact Flash Cards

Pressing the online button starts a test routine for the Compact Flash Card memory. The following display shows up after successful testing:

```
CompactFlashTest
Card Test O.K.
```

If the Compact Flash Card is defective or not available, a corresponding error report shows up.

For test purposes, the printer creates a file named TESTXXXX.TXT in the root directory of the card. An already existing file with this name will be overwritten.

Send test

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

- Serial connection:

  Carrying out the send test requires a terminal program, e.g. the Hyper Terminal contained in Windows95.

  Start send test as follows:

1. Start the terminal program and set it to the transmission parameters used by the printer.
2. Press the Online-key to start the send test.

Send test
running . . .

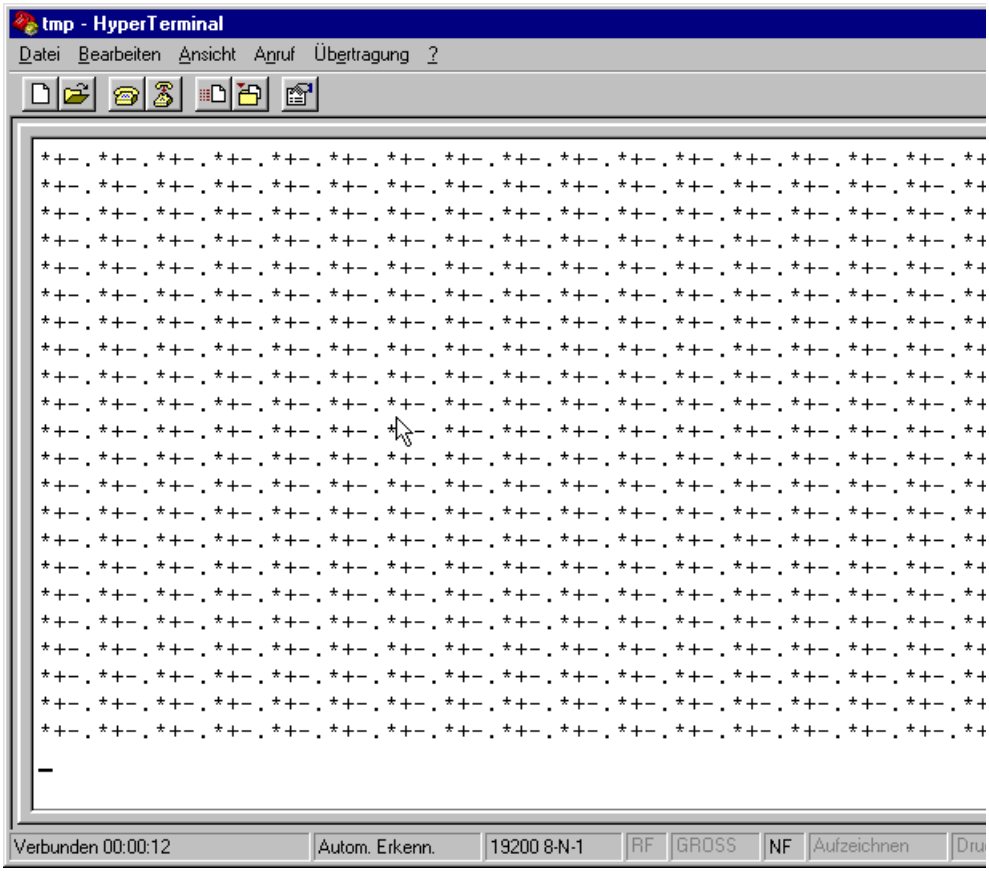


Fig. 20: Pattern in the terminal window.

The terminal window should show a regular pattern of four repeating characters. Those characters are continuous sent by the printer.

A transfer fault would be recognizable as irregularity of the pattern. Press the Prog-key to stop testing.

- Parallel connection:

  The parallel data transfer is done bidirectionally in the Nibble Mode. The transfer test requires an aid program which is available to service engineers.

Receive test

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

- Serial connection:

  Assumption is a serial data line between PC and printer; the parameter *INTERF.PARAM. > Interface* must be set on RS232 or RS485.

1. Start the MS-DOS-window (using Windows).
2. Set the interface to the values adjusted at the printer by means of MS-DOS command MODE:

   Example:

   Printer settings:
   Baud rate: 19200
   No. of data bits: 8
   Parity: keine
   Stop Bits: 1
   Data synch.: RTS/CTS

   DOS-Command: `mode com2 19200 8 n 1`
   (if com2 is the serial port)
3. Press the Online-key to start Receive test.

   Receive test
   0 Bytes

4. Send any file to the printer (Condition: com2 = Printer port; anyfile.txt = any file):

   copy anyfile.txt com2 (add /b for binary files)

   The following shows up on the printer display:

   Receive test
   xxxxx Bytes

   xxxxxx is the size of the sent file in bytes. This value is being counted up during the test. The test is complete if the file size does not vary any more. If the bytes announced at the printer match the size visible in the MS-DOS window, transfer was successful. Otherwise, transmission errors occurred.

- Parallel connection:

  Assumption is a parallel data line between PC and printer; the parameter INTERF.PARAM./Interface must be set up on Centronics. Proceed as follows:

1. Run Receive test. To this call the parameter *SERVICE FUNCTION > Receive test* and press the Online-key.

   Receive test
   0 Bytes

2. Start the MS-DOS-window (using Windows).

3. Send any file to the printer (Condition: lpt1 = printer port; anyfile.txt = any file):

   copy anyfile.txt lpt1 (add /b for binary files)

   The following shows up on the printer display:

   Receive test
   xxxxx Bytes

   xxxxxx is the size of the sent file in bytes. This value is being counted up during the test. The test is complete if the file size does not vary any more. If the bytes announced at the printer match the size visible in the MS-DOS window, transfer was successful. Otherwise, transmission errors occurred.

Rewinder adjust

64-xx [a]	DPM	ALX 92x [b]	AP 4.4	AP 5.4 [a]	AP 7.t

a) Only with „Rewinder 2000“ installed.
b) Only valid for backing paper rewinder.

Setting up the rewinder.

The rewinder setup compensates differeces in characteristic or assembly of the light barrier.

➠ CAUTION! - This parameter is valid for both, the *64-xx rewinder option* as well as the *ALX 92x backing paper rewinder*. But the setting values are completely different!

❍ A setting description for the *64-xx rewinder option* is given in the Manual Rewinder 2000.

❍ A setting description for the *ALX 92x backing paper rewinder* can be found in the Service Manual, topic section Service ALX 92x, „Setting the backing paper rewinder“.

Resting pos.xxx Setup of the resting position (xxx = actual sensor value).

End pos. xxx Setup of the End position (xxx = actual sensor value).

The setting follows in both cases this scheme:

1. Bring the dancer arm to its resting position.
2. Press the cut button (ALX 92x: Apply button)

   ➠ *Not* the Online button as with TTX x50!
3. Bring the dancer arm to its end position.
4. Press the Online button.

Com2 commun. test

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) Only with installed options board.
b) Only with installed I/O-board.

After calling this parameter, Com2 puts out all data which are received by the set Easy Plug port.

❍ See parameter Interface on page 45.

If this parameter is set to RS232, data can also be sent in reverse direction (that is, reception by Com2, output by Com1).

Com2 port test

64-xx [a]	DPM [a]	ALX 92x [a]	AP 4.4	AP 5.4 [b]	AP 7.t [b]

a) Only with installed options board.
b) Only with installed I/O-board.

Starts a selftest of the Com2 port.

➠ Pins 2/3 and 7/8 at the interface have to be connected (use a plug with shunted pins)!

During the selftest, data transfer and handshake are tested. The test ends with one of the following display messages:

Com2 port test Test failed	*An error has occured while testing the interface.*
Com2 port test Test O.K.	*Interface test successfully terminated.*

Headvo. adj. 20 V

64-xx [a] [b]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) Not valid for 64-08.
b) Only in production mode.

Adjusting the lower head voltage limit to 20 V. The head voltage adjustment makes printouts comparable.

❍ For details about adjusting the printhead voltage, refer to the Service Manual, topic section "Service print module", paragraph "Adjusting the printhead voltage".

Headvo. adj. 28 V

64-xx [a) b)]	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

a) Not valid for 64-08.
b) Only in production mode.

Adjusting the upper head voltage limit to 28 V. The head voltage adjustment makes printouts comparable.

❍ For details about adjusting the printhead voltage, refer to the Service Manual, topic section "Service print module", paragraph "Adjusting the printhead voltage".

Printtest

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

General printtest, prints line by line the set printer type and the firmware version. Material settings (Material type, length, width) are considered.

Stop the printtest by pressing the Online button.

SERVICE DATA

> OPERATION DATA

Serv. operations

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the number of service operations. The counter is increased by calling the parameter "SERVICE FUNCTION / Service / yes". Maximum value: 4 billions.

Headnumber

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the number of printhead changes. The counter is increased by calling the parameter "SERVICE FUNCTION / Cutter exchange / yes". Maximum value: 4 billions.

Roll number

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the number of exchanged print rollers. The counter is increased by calling the parameter "SERVICE FUNCTION / Roller exchange / yes ". Maximum value: 4 billions.

Cutter number

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the number of exchanged cutters. The counter is increased by calling the parameter "SERVICE FUNCTION / Cutter exchange / yes ". Maximum value: 4 billions.

Head run length

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the total "covered distance" of the printhead. The counter is reset with each calling of the parameter "SERVICE FUNCTION / Cutter exchange / yes". Maximum value: 4 billions.

Roll run length

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the total "covered distance" of the print roller. The counter is reset with each calling of the parameter "SERVICE FUNCTION / Roller exchange / yes". Maximum value: 4 billions.

Cuts on knife

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the number of cuts done by one knife. The counter is reset with each calling of the parameter "SERVICE FUNCTION / Cutter exchange / yes ". Maximum value: 4 billions.

Tot. mat. length

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the total "covered distance" of the feed roller. In comparison to the counter Roll run length, this counter is not reset after a roller exchange. Maximum value: 4 billions.

Tot. foil length

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the total "covered distance" of the ribbon roller.

Cuts on knife

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the number of cuts done by all knifes. In comparison to the counter Cuts on knife, this counter is not reset after a knife exchange. Maximum value: 4 billions.

Total head moves

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the counter for every up and down movement of the printhead. Maximum value: 4 billions.

Head strobes

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the counted head strobes, which are a measure for the service life of the printhead. A strobe is counted for each line in which at least one dot ist printed. Maximum value: 4 billions.

Foil diameter

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the calculated foil diameter: A measurement routine calculates the actual ribbon roll diameter with an exactness of 7.5%. This value is used to generate a "Ribbon End" signal on the USI board.

Operation time

64-xx | DPM | ALX 92x | AP 4.4 | AP 5.4 | AP 7.t

Shows the counted all in all time, the machine has been switched on.

> POWERSUPPLYDATA

Power supply data	64-xx	DPM	ALX 92x	AP 5.4	AP 7.t	Notes
Type	X	X	X	X	X	
Version	X	X	X			
Serial number	X	X	X			
Operation time	X	X	X			Operation time without standby
Total on time	X	X	X			Operation time with standby

Tab. 21: Items, that can be found in section „Power supply data“ (depending on the printer type and equippement).

Type

64-xx | DPM | ALX 92x | AP 4.4 | AP 5.4 | AP 7.t

Shows the type of power supply, e.g. „Blue Mountain“.

Version

64-xx | DPM | ALX 92x | AP 4.4 | AP 5.4 | AP 7.t

Shows the power supply version.

Serial number

64-xx | DPM | ALX 92x | AP 4.4 | AP 5.4 | AP 7.t

Shows the power supply serial number.

Operation time

64-xx | DPM | ALX 92x | AP 4.4 | AP 5.4 | AP 7.t

Shows the power supply operation time.

Total operation time

64-xx | DPM | ALX 92x | AP 4.4 | AP 5.4 | AP 7.t

Shows the printer operation time.

CPU identifier

64-xx DPM ALX 92x AP 4.4 AP 5.4 **AP 7.t**

Shows the designation of the applied processor.

PCB revision

64-xx DPM ALX 92x AP 4.4 AP 5.4 **AP 7.t**

Shows the layout revision and part number of the CPU board.

FPGA version

64-xx DPM ALX 92x AP 4.4 AP 5.4 **AP 7.t**

FPGA version

MAC address

64-xx DPM ALX 92x AP 4.4 AP 5.4 **AP 7.t**

Shows the MAC Address, an unchanging board address, which is programmed by the board manufacturer.

Serial number

64-xx DPM ALX 92x AP 4.4 AP 5.4 **AP 7.t**

Serial number: Is programmed by the board manufacturer.

Production date

64-xx DPM ALX 92x AP 4.4 AP 5.4 **AP 7.t**

Production date: Is programmed by the board manufacturer.

PCB part number

64-xx DPM ALX 92x AP 4.4 AP 5.4 **AP 7.t**

Shows the part number of the board without components.

Board part numb.

64-xx DPM ALX 92x AP 4.4 AP 5.4 **AP 7.t**

Shows the part number of the board with components.

Manufacturer

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t [a]

a) Only in production mode.

Shows the board manufacturer.

Work place

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t [a]

a) Only in production mode.

Shows the printer work place.

Company name

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t [a]

a) Only in production mode.

Shows the company name.

> CF CARD SLOT

Card in slot

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Checks, if a CF-card is inserted into the printer card slot.

Yes CF-card available.

No No CF-card available.

> PERIPHERAL DATA

Peripheraldriver	64-xx	DPM	ALX 92x	AP 5.4	
Feed driver	X	X	X		X
Foil driver	X	X	X		X
Head driver	X	X	X		X
Peripheraldriver	X	X	X	(X)	(X)
USI interface	(X)	(X)	(X)		
Dispenser feed driver	(X)		X		
Internal rewinder				(X)	

Tab. 22: Possible items in the submenu „PERIPHERAL DATA“ (X=available, (X)=optional).

Feed driver

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Applied PIC version on the output stage board driving the feed motor.

Head driver

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Applied PIC version on the output stage board driving the head motor.

Peripheraldriver

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Applied PIC version on the output stage board driving the peripheral motor.

> MEMORY DATA

Ram memory size

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the available RAM memory size.

❍ The RAM memory size is setable by parameter *SYSTEM PARAMETER > Ram disk size*.

Flash mem size

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the available Flash memory size. The abbreviation which is displayed behind the memory size indicates the manufacturer of the applied Flash-RAM:

Abbreviation	Manufacturer
MX	Macronix
AMD	AMD
FUJ	Fuji

Tab. 23: The displayed abbreviations indicate the manufacturer of the Flash-RAM.

Space for Jobs

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the memory size, which is available for print jobs.

Max. Labellength

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the maximum printable label length, which results from the memory allocation.

Default values

64-xx	DPM	ALX 92x	AP 4.4	AP 5.4	AP 7.t

Shows the setting of parameter *SPECIAL FUNCTION* > *Default values*.